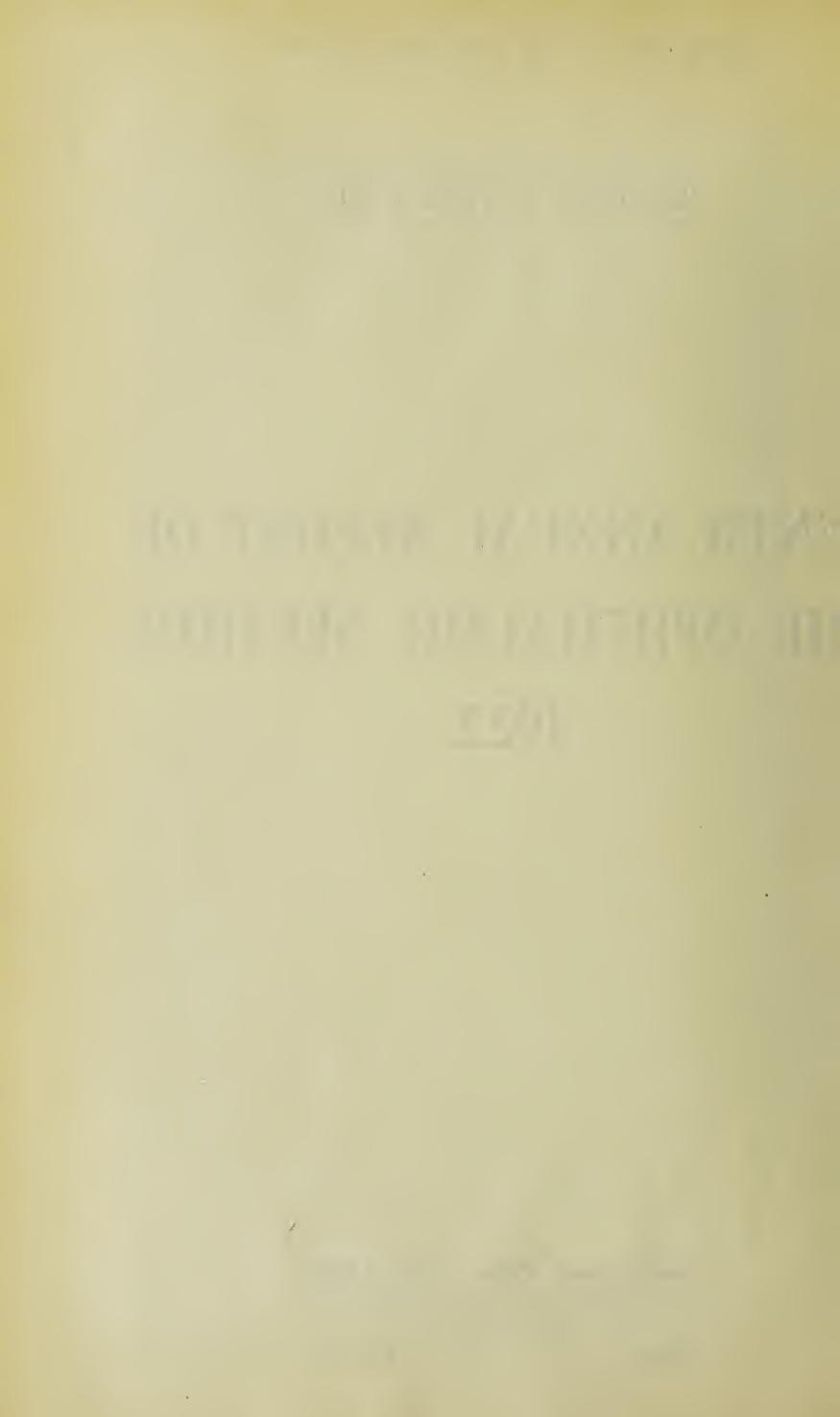
Department of Public Health.

# TENTH ANNUAL REPORT OF THE OPHTHALMIC SECTION, 1922.

Government Press, Cairo, 1926.

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# CONTENTS.

PAGE.

1.—General Remarks:—						
(a) Ophthalmic needs of Cairo	•••			• • •	•••	1 1
(c) Mudîrîya Hospitals	• • •			• • •	•••	2
(d) Ophthalmic needs of the Southernmost part of Egypt	• • •			• • •	• • •	$\frac{2}{2}$
(e) Ophthalmic Hospitals in the Markazes	• • •			• • •	• • •	$\frac{z}{2}$
(f) The Oases			•••	• • •	•••	3
(g) Opiniums Zurestreig						
2.—Clinical Section:—						
						2
(a) Glaucoma	•••	• • •	•••	•••	• • •	$\frac{3}{4}$
(b) Cataract operations		•••	•••	• • •	• • •	4
(c) Influence of temperature on eye disease				• • •		4
Table II.—Temperature and number of new patients treated	• • •		•••	• • • . ,	• • • •	5
(d) Acute Ophthalmia	າາ			•••	• • •	7
TABLE III.—Ulcers complicating conjunctival infection during 192  (e) Membranous conjunctivitis	44	•••	•••	• • •	•••	7
(e) Memoranous conjunctivities	•••	•••	•••	•••	•••	·
3.—Statistics of Blindness:—						
						0
(a) Blindness in Egypt	• • •		• • •	• • •	• • •	8
Table IV.—Percentage of Blindness since the year 1909  V.—Pathological causes of Blindness	• • •		• • •	• • •	• • •	8
(b) Statistical Enquiry on Blindness	• • • •	• • •			•••	9
Table VI.—Persons per 1,000 of each sex suffering from blindn	ess in	one o	or bo	th e	yes	
in Governorates and Mudîrîyas			• • •	• • •	• • •	9
,, VII.—Proportion of the population per 1,000 of each sex s						0
in 1907 and 1917						$\frac{9}{10}$
IX —Proportion per 1 000 of each sex suffering from blind	ness p	er ag	e-gro	ups	• • •	
,, IX,—I toportion per 1,000 of each sex sunoring from sink	1	0	0	T		
4.—The Egyptian Ophthalmic Hospitals Laboratory		•••	•••	•••	•••	10
			 LS :—	•••	•••	10
5.—Ophthalmic Inspection and Treatment at the Government Prima	ary So					
5.—Ophthalmic Inspection and Treatment at the Government Prima Report 1921–1922	ARY SO		• • •	• • •	•••	11
5.—Ophthalmic Inspection and Treatment at the Government Prima Report 1921–1922	ARY SO	• • •	• • •	• • •	•••	
5.—Ophthalmic Inspection and Treatment at the Government Prima Report 1921–1922	ARY So	··· ··· rimar	 ry Sc	 hool	 in	11 13
5.—Ophthalmic Inspection and Treatment at the Government Prima Report 1921–1922	ARY So	··· ··· rimar	 ry Sc	 hool	 in	11 13
5.—Ophthalmic Inspection and Treatment at the Government Prima Report 1921–1922	ary So	 rimar 	 ry Se	 hool	 in	11 13
5.—Ophthalmic Inspection and Treatment at the Government Primare Report 1921–1922	ARY So	 rimar 	 cy So 	 ehool 	 in 	11 13 15 15
5.—Ophthalmic Inspection and Treatment at the Government Primare Report 1921–1922	onta Programme 1922	rimar	 cy Sc	 ehool 	 in 	11 13 15 15 16 17
5.—Ophthalmic Inspection and Treatment at the Government Primare Report 1921–1922	nta P. 919 1922	 rimar 	 cy Sc	 ehool 	 in 	11 13 15 15 16 17 20
5.—Ophthalmic Inspection and Treatment at the Government Prime Report 1921–1922	919 1922	 rimar 	 ry Se	 ehool 	 in 	11 13 15 15 16 17 20 21
7.—Ophthalmic Inspection and Treatment at the Government Prime Report 1921–1922	919 1922	 rimar 	 ry Se	 ehool 	 in 	11 13 15 15 16 17 20
Comparison of corneal opacity among pupils of Tathe years 1913 and 1923	919 1922	rimar 	 ry Se	chool	in	11 13 15 16 17 20 21 23
5.—Ophthalmic Inspection and Treatment at the Government Prime Report 1921–1922	919 1922 	rimar	cry So	chool	in	11 13 15 16 17 20 21 23 23
Report 1921–1922	919 1922 	rimar t the thalm	 ry So   Oph 	chool	in	11 13 15 16 17 20 21 23 23
Cornell Inspection and Treatment at the Government Primare Report 1921–1922	919 1922 med a opht	rimar	cy So	chool athal cospi	in tals aent	11 13 15 15 16 17 20 21 23 23 24 24
Report 1921–1922	919 1922 med a Opht	rimar  tt the thalm sougl	ry Se	chool thal cospi	in	11 13 15 16 17 20 21 23 23
Report 1921–1922	919 1922 med a opht	rimar t the thalm sougl	y So	chool athal cospi	in mic tals	11 13 15 16 17 20 21 23 23 24 24 25 25 26
Report 1921–1922	919 1922 omed a Opht	rimar  t the  thalm  sougl	ry Se	chool thal cospi eatm	in tals	11 13 15 16 17 20 21 23 24 24 25 26 26 26
5.—Ophthalmic Inspection and Treatment at the Government Prime Report 1921–1922	919 1922 med a Opht	thalm	y So	chool athal cospi eatm	in in mic tals	11 13 15 16 17 20 21 23 23 24 24 25 26 26 27
Report 1921–1922	919 1922 med a Opht	thalm	y So	chool thal cospi eatm	in tals	11 13 15 16 17 20 21 23 24 24 25 26 26 26
5.—Ophthalmic Inspection and Treatment at the Government Prime Report 1921–1922	919 1922 med a Opht	thalm	y So	chool athal cospi eatm	in in mic tals	11 13 15 16 17 20 21 23 23 24 24 25 26 26 27
Report 1921–1922	919 1922 onta P 919 1922 oned a they 2 yes	t the sough	oph ht tre	chool athal cospi	in in mic tals	11 13 15 16 17 20 21 23 24 24 25 26 26 26 27 28
Report 1921–1922	919 1922 med a Opht a they yes	rimar	Oph ht tre	chool thal cospi eatm	in tals	11 13 15 16 17 20 21 23 24 24 25 26 26 26 27 28

7. Expenditure Statistics (continued):—	AGE.
Table XXIX.—Actual expenditure, Provincial Council Ophthalmic Hospitals	31
,, XXX.—Comparison of the cost of maintenance of a permanent ophthalmic hospital in 1914 and 1922	32
" XXXI.—Cost of uniform diets for all in-patients at Ophthalmic Hospitals	0.0
during 1922, excluding cost of rations of employees ,, XXXII.—Number of beds at the Ophthalmic Hospitals	33 33
8. Statistics of School Clinics:—	
(a) 1921–1922.	
Table I.—Pupils inspected	34
,, II.—(a) Condition of Conjunctiva	35
(b) Effect of treatment on serious stages of trachoma	35
(c) Stages of trachoma at beginning and end of School year	35
,, III.—(a) Trachoma and its relation to School Years (beginning of the year) (b) Comparison of serious stages of trachoma (beginning of the year)	$\begin{array}{c} 36 \\ 37 \end{array}$
IV _Vision of all numils without spectacles	37
,, V.—Spectacles ordered	38
,, VI.—(a) Vision of pupils ordered spectacles (before ordering)	39
(b) Vision of pupils ordered spectacles (after ordering)	39
" VII.—Condition of cornea before treatment	39
(b) 1922–1923.:—	
Table I.—Pupils inspected	40
,, II.—(a) Condition of conjunctiva	41
(b) Condition of trachoma in Government Schools (in groups)	42
(c) Effect of treatment on serious stages of trachoma	43
(d) Stages of trachoma at beginning and end of School Year	43
,, III.—(a) Trachoma and its relation to School Years (beginning of the year) (b) Comparison of serious stages of trachoma (beginning of the year)	44 45
IV — Vision of all Punils without spectacles	45
,, V.—Spectacles ordered	46
,, VI.—(a) Vision of Pupils ordered spectacles (before ordering)	47
(b) Vision of Pupils ordered spectacles (after ordering)	47
" VII.—Condition of cornea before treatment	48

1

# ANNUAL REPORT ON THE WORK OF THE OPHTHALMIC NEEDS OF CAIRO FOR 1922.

#### SECTION III.

#### I.—GENERAL REMARKS.

#### (a) Ophthalmic Needs of Cairo.

In the Report for the year 1919 the provision of a large central ophthalmic hospital for Cairo was recommended. For this purpose the Government were prepared to grant a suitable site in Bulâq, one of the most populous quarters of Cairo, on condition that the money for building was raised from voluntary sources within two years. However, owing to political troubles at that time the money was not raised and the offer of the site lapsed.

Experience of the ophthalmic needs of Cairo has been considerably increased during the last two years by the maintenance of two tent hospitals one at Gîza and one at Rôd el Farag. The hospital at Gîza ministered mainly to the inhabitants of Gîza town and the more distant markazes of Gîza Mudîrîya, while the hospital at Rôd el Farag ministered not only to the very large working class population around the site of the hospital but also to those of Saptîya and Bulâq. If it is ever possible to increase the facilities for ophthalmic relief in Cairo it may be desirable to consider the advisability of building small hospitals at a cost of L.E. 10,000 to L.E. 15,000 on the outskirts of Cairo rather than to build at any one place a single expensive hospital which it might be difficult for the inhabitants of even the immediate suburbs of Cairo to visit. The Rôd el Farag Hospital should be replaced by an adequate building as soon as possible and, in the future, hospitals should be built at Bulâq, Abbâsîya, Helmîya, and Saîyeda Zeinab.

For the purpose of training ophthalmic surgeons the new permanent hospital at Gîza and the Gîza Laboratory will if necessary be found amply sufficient, together with the

clinical material obtainable at Rôd el Farag.

#### (b) Ophthalmic Needs of Governorates other than Cairo.

Alexandria, Port Said, Damietta, Suez, with note on Rosetta.

At Alexandria a section of the Government Hospital has been allotted for ophthalmic purposes. There is a good operating room, beds for thirty patients, and a fairly satisfactory out-patients department. As the Government hospital is increased in size a part of the new buildings should be devoted to a self-contained ophthalmic block. This arrangement would be very satisfactory, and it is to be hoped that money will be forthcoming from the Ministry of Finance for the purpose in the next budget.

The Municipality of Alexandria in addition maintains a very useful ophthalmic

hospital which reflects great credit on both the Municipality and the Surgical Staff

At Port Said a very satisfactory out-patient clinic has been provided by the Municipality and is maintained by the Government. A few beds in the Government Hospital are avail-

able for ophthalmic cases.

The Government Hospital at Damietta is on the point of being rebuilt and a credit is available for this purpose. In the new building a satisfactory Ophthalmic Department has been provided. In the mean time temporary quarters have been provided, and an ophthalmic clinic is now being carried on.

At Suez a section of the Government Hospital will be devoted to ophthalmology,

as soon as the hospital has been enlarged: plans are ready for this purpose.

Rosetta, situated in an isolated position 71 kilometres from Alexandria, although no longer a Governorate, may be considered here. The town itself has a population of 21,950, while the police district of which Rosetta is the centre has a population of 77,669, there is no hospital of any kind here. While a travelling hospital was working at Rosetta, during 1917 a very large amount of work was done showing the need for ophthalmic relief.

#### (c) Mudiriya Hospitals.

Thirteen of the fourteen provinces of Egypt have now been supplied each with a specially built and specially designed ophthalmic hospital. The money for capital expenditure has been provided as follows: The Government L.E. 19,240, Provincial Councils or Municipalities L.E. 33,326; public subscriptions or private benefactions L.E. 58,126; all are maintained by the Government.

The hospital most recently opened is that of Qena.

The Giza Hospital is being carried on temporarily in tents until the building is completed.

#### (d) Ophthalmic Needs of the Southernmost Part of Egypt.

A travelling hospital housed under canvas provides for the ophthalmic needs of the southern province, Aswân. This province, extending for 300 kilometres along the banks of the Nile, is too poor to provide a sum sufficient to build and equip a permanent hospital. It is desirable that there should be a built hospital at the capital town of the province Aswân, as a centre for the ophthalmic campaign both north and south of that town. North of Aswân town the travelling hospital will always be required for the towns of Isna (population 17,386), Idfû (population 20,102), and Kom Ombo (population 20,185) which are a very long way from the existing hospital at Qena, and the proposed hospital at Aswân. South of Aswân town the river should be patrolled by a floating hospital for the relief of the inhabitants of Upper Nubia as far south as Wadi Halfa.

However, it is not possible for the Government to provide a floating hospital for the province as well as a permanent hospital at Aswân town, especially if, the travelling hospital already at work in the province is allowed to remain there, Perhaps however this floating hospital for the southernmost part of Egypt may be provided by some outside agency.

#### (e) Ophthalmic Hospitals in the Markazes.

Some years ago ophthalmic hospitals were built in three of the largest markazes, Mahalla el Kubra, Kafr el Zaîyât, and Santa. These hospitals were and are maintained by the Provincial Council of Gharbîya. They are controlled by the Director of the Ophthalmic Section of the Department acting as the Deputy of the President of the Council; so that the full power remains with the Council.

The Provincial Councils of Daqahlîya and of Asyût also each maintains a travelling hospital in tents: each of these hospitals is maintained in the same way, to the mutual satisfaction of the Provincial Council and of the Department of Public Health.

It is desired that all provincial councils should be aware that if they are able to afford to privide a travelling or a built hospital and to maintain it, the Department of Public Health is prepared to have plans and estimates made for submission to the provincial council, and to manage the hospital when it is ready as the deputy of the President of the Council. All this is done gratuitously. Well trained ophthalmic surgeons are provided for the hospitals and replaced during illness, leave, etc. Efficient inspection also is provided by the Department.

#### (f) The Oases.

The Frontiers District Administration, is fully aware of the importance of providing ophthalmic treatment in the districts under its control, such as Mersa Matrûh, Sollûm, Kharga, and Dakhla; also in the Sinai Peninsula, and Egyptian Medical Officers of Frontier Districts Administration are sent to the Ophthalmic Hospital at Gîza for theoretical and practical courses as circumstances allow.

#### (g) Ophthalmic Laboratory.

In the last Report it was shown that the clinical ophthalmic pathological and bacteriological work was accommodated in a hired building at Gîza. Also that money for the construction of a special laboratory, on a site adjoining the new permanent hospital at Gîza, had been granted by the Imperial War Graves Commission as a memorial to the men of the Egyptian Labour Corps and Camel Transport Corps who fell in the Great War.

The plans of the Laboratory are those approved by the London Committee of the Imperial War Graves Commission. The Egyptian Government has granted a sum of L.E. 2,000 for the equipment of the Laboratory.

#### 2.—CLINICAL SECTION.

#### (a) Glaucoma.

The number of cases of primary glaucoma examined during the year 1922 was 2,512 or 1.7 per cent of the total number of new patients presenting themselves for treatment. This number included 1,968 cases of absolute glaucoma in one or both eyes.

The operation performed was usually Elliot's operation of trephining the corenosclera combined with iridectomy through the trephine hole; 503 operations were performed. In 466 operations, including those in which owing to lenticular opacity extraction would have to be performed sooner or later, iridectomies were performed.

In the report for the year 1913 was mentioned: "the operation can and should be performed for a patient on an unaffected eye, as soon as the fellow eye has been definitely diagnosed as glaucomatous, since the operation is almost devoid of risk, and early operation is prophylactic against the development of increased tension, glaucoma usually affecting both eyes sooner or later." This policy has been religiously adhered to during the last 10 years, and there is no reason to alter this opinion. Secondary infections are extremely rare in Egypt, only seventeen cases having been reported since 1911 out of 5,017 operations of trephining performed during this period.

The extraordinary difference in the incidence of secondary infection between our experiences in Egypt and the experience of some European surgeons must have its origin in one of four causes:—

- (1) Defective inspection of post operation cases in Egypt: the patients developing much more secondary infection than we have knowledge of but refraining from presenting themselves at hospitals.
- (2) The texture of the conjunctiva of the Egyptians being of a more resistent nature than that of Europeans. (See Report for 1921, p. 8.)
  - (3) The technique used being of a more adroit nature than that in Europe.
- (4) Greater liability to endogenous infection in Europe than in Egypt. It is impossible to form a definite opinion at the present time on this important matter.

It must be remembered that the cases here considered were all hospital patients, who instantly agreed to whatever operative treatment was proposed by the hospital surgeon, a very different state of affairs to that obtaining in Europe among glaucoma patients.

#### TABLE I .- PRIMARY GLAUCOMA.

Acute	$ \begin{vmatrix} 39 \\ 97 \\ 2,376 \end{vmatrix} * $
Total	2,512
Total number of patients examined  Per cent of glaucoma cases  Per cent of absolute glaucoma cases	147,492 1·70 1·33
Operations:—  Iridectomy	466 503

<sup>\*</sup> Including 1968 absolute monocular and binocular.

# (b) Cataract Operations.

The operation of election in the 641 extractions of senile cataract performed during 1922 was the combined operation of extraction with iridectomy. In certain cases of complicated cataract a preliminary iridectomy was performed.

Loss of vitreous is an exceedingly serious event in the operation and one to be avoided by every means in the power of the operator, as in such a large number of cases detachment of the retina occurs either as an immediate or as a delayed sequela of the operation.

The average of vitreous loss for thirty-three operators of 6.8 per cent seems to be not excessive as compared with the results published by those surgeons in other countries who go in for what may be called the more fancy operations. It must be remembered that some of our surgeons are very junior, also that complicated operations are more frequent that in England, owing to the effect of trachoma and acute ophthalmias.

A selection of the operation which best suits the operator, which can be performed in the minimum time with the minimum disturbance of the tissues, and which is least likely to be followed by loss of vitreous appears to me to be obviously the best line to take.

#### (c) Influence of Temperature on Eye Disease.

The six months June to the end of November corresponding to the warmer months of the year are those in which the amount of clinical work is at its maximum. The relation between the temperature and the number of new patients treated is shown in the accompanying graph.

The relation of the incidence of various micro-organisms to the temperature given has been sufficiently worked out in these Reports annually since 1914 and will not be dealt with further.

Table II.

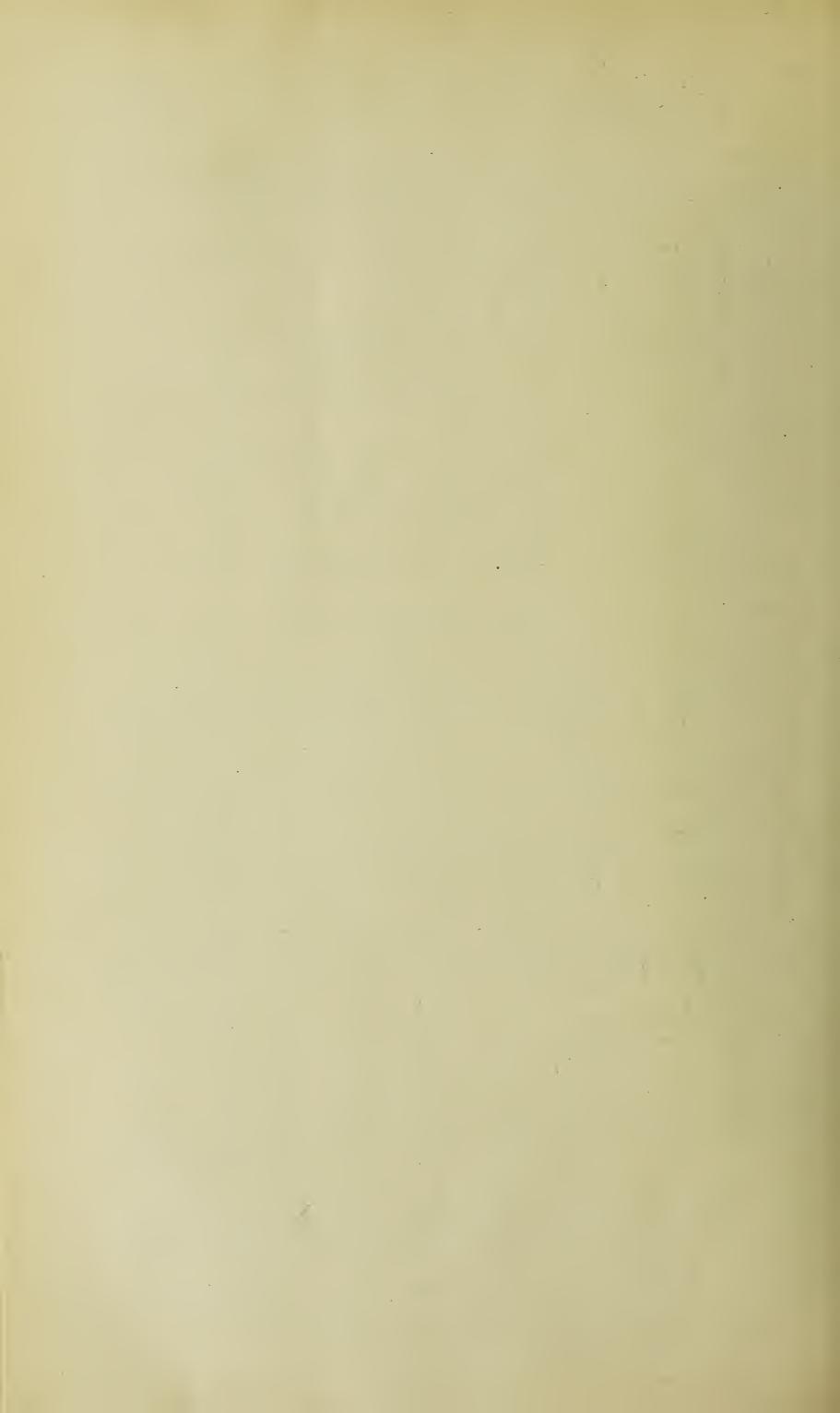
Te in perature and number of new parients treated

(c) عد ول غرة (c)

الطفس وعدد المرضى المستجد اللاب عولجول

Mav. Apr. Muy June Judy Aug. Sep. Oct. Nov. Dec. No. of (u ses

عدد المرضى ديسير نوابر التور سبير اغسطس يوليه يونيه مايو ابريل مارس Tempo Jan. Fiv. ينارس فبراير درجه الموارة ععياس سنيتواد 16,000 17... 27 36 15,500 100 ... E0 35 22 34 15,000 10 ... 33 22 14,500 120 .. 23 32 14,000 14 ... 31 13,300 140 .. 30 13,000 14 ... 9 12,500 29 1000 12,000 28 ۲2 15... 11,500 27 110 .. 57 26 11,000 11 ... 99 25 10,500 1.0.. 37 24 10,000 23 90 .. 9.500 22 9,000 8,500 21 ۸ . . . 3,000 20 19 7,500 4 o .. 15 7,000 ٧... 17 6,500 70 .. 17 16 6,000 7... 15 5,500 5,000 14 13 4,500 20 .. 12 4,000 11 3,500 60 .. a. \_\_\_\_\_ Average temperature in degrees centigrade b. \_\_\_\_\_ New patients treated par month (۱) ---- معدل درجة الحرارة بمقياس سنتجراد (۱) - - - - - المرض المستجدون الذين عولخوا سنهريا 5.0, E. 25/100



#### (d) Acute Ophthalmia.

The importance of applying treatment as soon as attack of acute ophthalmia appears is of course self evident. Frequently however, the patient defers coming to the hospital

until ulceration of the cornea has already developed.

In these cases whatever may be the bacteriological cause of the condition, the local treatment is the same, thorough swabbing of the conjunctiva of the everted upper and lower lids with silver nitrate 2 per cent, in the morning, (and again in the evening in all severe cases, taking care, however, not to cause excessive necrosis of the superficial epithelium). Constant washing of the eyes by the patient himself under supervision, with, if possible, occasional irrigation of the conjunctival sac by the surgeon, with ordinary surgical eusol solution is to be used.

If, owing to the weather or other conditions, the eusol cannot be utilised at its full strength, potassium permanganate solution of a strength of 1 in 5,000 should be used.

The following table is interesting although the deductions to be drawn from it must be taken with some reserve. The micro-organisms were spotted in the ordinary clinical routine from their morphological characters as seen in a film preparation only. Also as regards the ulceration occurring in patients under treatment the results given are probably too low for two reasons, one being that many patients do not continue their attendance if they are not rapidly progressing, and the other is the natural reluctance of medical officers to report their less satisfactory cases.

TABLE III.—ULCERS COMPLICATING CONJUNCTIVAL INFECTION DURING 1922.

							No.	ULCERATIO	N OCCURRING IN		Per Cent of
0	RGAN	ISM.					Ulceration.	New Patients.	Patients under Treatment.	Total.	Cases in which Ulceration occurred.
Gonococcus Koch-Weeks Pneumococcus Morax-Axenfeld Mixed infection	•••	•••	•••	•••	•••	•••	7,779 4,183 149 1,025 505	$     \begin{array}{r}       3,473 \\       1,230 \\       151 \\       389 \\       260     \end{array} $	53 8 1 2	11,305 5,421 301 1,416 765	31·18 22·82 50·49 27·61 33·98
				Гота	L	•••	13,641	5,503	64	19,208	38.97

From the table it is seen that a very small percentage of patients who come under

treatment before ulceration develops, suffer any damage to the cornea.

The organisms most frequently found were in the following order (in cases in which the cornea was ulcerated) pneumococcus, mixed infection, gonococcus, Morax-Axenfeld bacillus, Koch-Weeks bacillus. These are in exactly the same order as was shown in the last Report.

#### (e) Membranous Conjunctivitis.

Membranous conjunctivitis is not uncommon in Egypt, especially during the warmer months. Up to the present time microscopical examination of the conjunctival discharge with an oil immersion lens has always failed to show the presence of organisms other than the gonococcus, the Koch-Weeks bacillus, the pneumococcus, the staphylococcus, the streptococcus, Morax-Axenfeld or Xerosis bacillus. During August and September of year 1922, however, a diphtheritic condition being suspected by one of the Medical Officers material was sent up to the Public Health Laboratories in order that cultures might be made. In a certain number of cases the results were positive and warning having been issued to all hospitals, special precautions were taken to prevent the spread of this dangerous condition.

A résumé of this subject only can be given here. The organisms in twenty-two cases were reported from the Public Health Laboratories as having been shown after culture to be identical in morphological features with the Klebs-Loffler bacillus. And by exhaustive animal experimentation, four of these twenty-two cases were proved to have been actually caused by this organism. It is of course clear that time would not allow of more than four cases being subjected to the necessarily prolonged investigation required by modern bacteriologists for the complete proof of the nature of the organism as being actually the Klebs-Loffler bacillus causative of diphtheria.

One or two points stand out as certain from our recent experience. It is quite impossible on clinical grounds to state whether or not a case of membranous conjunctivitis is due to the diphtheria bacillus or not. Another equally important point is that microscopical examination with an oil immersion objective of a stained film of the conjunctival discharge is without importance as regards an exact diagnosis. In several cases in which animal experimentation fully showed that the condition of infection with the bacillus diphtheria was present a careful examination of the discharge only showed the presence of an organism resembling the gonococcus, the Koch-Weeks bacillus, etc.

#### 3.—STATISTICS OF BLINDNESS.

#### (a) Blindness in Egypt.

The section in last year's Report may be consulted on this subject. During 1922, 17,374 persons who were blind in one or both eyes were seen at the hospitals, or 11.8 per cent of these examined. Table V is comparatively more than the number of blind persons due to double causes given for some binoculars.

Table IV.—Yearly Percentages of Blindness amongst Ophthalmic Hospitals Patients since the Year 1909.

YEAR.	Per Cent of Blindness in One or Both Eyes.	YEAR.	Per Cent of Blindness in One or Both Eyes.
1909 1910 1911 1912 1913 1914 1915	$15 \cdot 6$ $17 \cdot 4$ $19 \cdot 2$ $15 \cdot 8$ $14 \cdot 8$ $13 \cdot 2$ $12 \cdot 0$	1916 1917 1918 1919 1920 1921 1922	$11 \cdot 2$ $13 \cdot 9$ $14 \cdot 6$ $15 \cdot 3$ $13 \cdot 8$ $12 \cdot 2$ $11 \cdot 8$

Our definition of blindness is that proposed by Trousseau, that is to say inability to count fingers held up at a distance of 1 metre.

The pathological causes of blindness are given below. Trachoma is not an immediate cause of blindness and will not be found in the table, though obviously it may be a contributory cause especially where by its cicatrization entropion and consequent injury to the globe is caused.

TABLE V.—PATHOLOGICAL CAUSES OF BLINDNESS.

• • •	• • •	• • •	• • •	•••	• • •	• • •	• • •	•••	• • •	• • •		15
												4,758
												4,878
						•••	• • •	•••				3,220
			• • •		•••	•••					• • •	1,304
												251
				•••	•••	•••	•••	•••	•••	•••	•••	32
	• • •							• • •				54
				• • •	• • •	• • •		• • •		• • •		170
						• • •					•••	924
		• • •									•••	1,044
• • •		• • •							• • •			1,861
• • •	• • •	• • •	•••	• • •	• • •					•••	•••	196
• • •		• • •	•••		• • •	•••	• • •			•••		62
• • •	• • •	•••	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	•••	16
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• • •	• • •	•••	•••	• • •	•••	•••	•••	• • •	•••	•••	•••	289
												10 409
												19,402

#### (b) Statistical Enquiry on Blindness.

The first census in which information was asked for concerning disabilities was 1907. Enumerators were instructed to enter on the census schedule, details of the persons who were either totally blind or blind in one eye. This information was again asked for in 1917.

The details collected on the schedules were tabulated in the Government Statistical Department and the resulting tables published in the census reports of the respective years.

Table VI shows the proportion of persons per thousand of each sex who are either totally blind or blind in one eye for each governorate and Mudîrîya in the country. This table has certain systematic features:—

- (i) The proportion of blindness is, generally speaking, less in governorates than in the Mudîrîyas.
- (ii) The proportion of males suffering from blindness is greater than that of females, although the proportion of females totally blind is greater.
- (iii) The proportion of persons suffering from blindness in the Mudîrîyas is least in the three most southerly ones, Girga, Qena, and Aswân.

The proportion of blindness is greatest in Faîyûm, a province that is, geographically, apart from the remainder of Egypt.

Table VI.—Persons per 1,000 of each Sex suffering from Blindness in one or both Eyes in Governorates and Mudirîyas.

(	Gove	RNOI	RATE	OR	Mul	IRIY.	Α.		Blind in	one eye.	Blind in	both eyes.		ons afflicted lindness.
									Male.	Female.	Male.	Female.	Male.	Female.
			-											
Cairo			• • •				• • •		29	21	13	14	42	33
Alexandr	ria		• • •			• • •			15	9	7	6	$\frac{12}{22}$	15
Canal									20	15	- 7	. 8	$\frac{1}{27}$	23
Suez									23	18	6	10	29	28
Damietta	1								17	14	11	13	28	$\frac{20}{27}$
Eastern	Dese	rt							16	15	10	$\frac{16}{16}$	$\frac{26}{26}$	31
Western	Des	sert					• • •		22	7	10	10	$\frac{1}{32}$	17
Sinai									16	. 16	10	18	26	34
Beheira						• • •			42	29	10	14	$\overline{52}$	43
Daqahlîy	a								34	25	10	15	44	40
Gharbîya									41	31	11	16	$\tilde{52}$	$\frac{1}{47}$
Minûfiya		• • •							42	30	10	13	$5\overline{2}$	43
Qalyûbîy	ra								36	24	11	13	47	37
Sharqîya			• • •						40	30	11	15	$\tilde{51}$	45
Aswân	• • •								21	.15	14	15	35	30
Asyût	• • •								38	24	13	14	51	38
Beni Sue	ef							4	48	30	11	12	59	42
Faîyûm									57	42	13	17	70	59
Girga						• • •			25	16	10	11	35	27
Gîza				• • •					38	23	$\overline{12}$	$\overline{12}$	50	35
Minya	• • •							• • •	51	37	11	14	62	51
Qena	• • •								24	16	10	11	34	$\frac{27}{27}$
Egypt	•••	•••	•••	•••		•••	•••	•••	35	26	11	14	46	40

Table VII.—Shows the Proportion of the Population per 1,000 of each Sex, Suffering from Blindness in 1907 and 1917.

		1907			1917	
	Male.	Female.	TOTAL.	Male.	Female.	TOTAL.
Blind in one eye	36	28	32	37	26	31
Blind in both eyes	12	14	13	1.1	13	12 .
•						L- ,

These figures show a slight decrease in the proportion of blindness during intercensal period, but it should be borne in mind that the machinery of an ordinary census is not well-adapted to the collection of information regarding disabilities. It is difficult to define a disability in precise and non-technical terms and it is more difficult to ensure that the enumerator interprets the definition intelligently. There is also a general reluctance in most countries to admit disabilities, and census results in this respect are usually deficient.

TABLE VIII.—Shows the Proportion of Blindness per 1,000 of each Sex by Religion.

									BLIND IN	ONE EYE.	BLIND IN 1	BOTH EYES.	тот	TAL.
		Rı	ELIGI	ON.					Male.	Female.	Male.	Female.	Male.	Female.
Moslem	•••	•••	•••	•••	•••	•••	•••	•••	37.2	26.4	10.9	13.9	48.1	40.3
Christian	•••	•••	•••	•••	•••	•••	•••	•••	31.8	21.9	10.0	11.2	41.8	33.1
Jewish	•••	• • •	•••	•••	•••	•••	•••	•••	16.4	12.4	6.6	5.1	23.0	17.5

In each religion the proportion of blindness is higher among males than among females. The proportion of men totally blind is higher than that of females, among the Jews only.

The proportion of blindness is greatest among Moslems, being 4.8 per cent among the males and 4 per cent among females. The Christians population suffer far more than does the Jewish, whose figure is less than half that of the Moslem.

TABLE IX.—PROPORTION PER 1,000 OF EACH SEX SUFFERING FROM BLINDNESS PER AGE-GROUPS.

							BLIND IN	ONE EYE.	BLIND IN I	BOTH EYES.
A6	E GRO	UP.				Male.	Female.	Male.	Female.	
Under 1 year	•••		•••	•••	•••	•••	2.8	1.4	0.7	0.8
From 1 to 4 years	•••	•• •••	•••	•••	•••	•••	11.2	6.9	2.3	1.9
,, 5 ,, 9 ,,	•••		•••	•••	•••	•••	20.3	13.2	3.6	3.0
,, 10 ,, 19 ,,			•••	•••	• •••	•••	31.3	20.3	5.1	4.8
" 20 " 29 "			•••	•••	•••	•••	40.8	24.1	6•9	6•1
" 30 " 39 "	•••		•••	•••	•••	•••	48.7	33.9	8.2	9•1
Over 39 years	•••	•• •••	•••	•••	•••	•••	58.6	47•1	30.1	42.7

At all ages the percentage of males suffering from total blindness is greater than that of females. The figures for infants under one year are probably valueless. The greatest increase is between one to four years and five to nine years when the proportion is practically doubled, and afterwards the increase is steady. Total blindness increases to a striking extent after fourty years of age.

#### 4.—THE EGYPTIAN OPHTHALMIC HOSPITALS LABORATORY.

The advantage of such a laboratory was felt since the starting of these hospitals in 1904, but the heavy clinical labours of the staff prevented achieving this for some time. In 1913, however, laboratory work was first begun in Asyût Ophthalmic Hospital.

The laboratory now installed near Gîza Stationary Ophthalmic Hospital, in the suburbs of Cairo, receives material from all the different ophthalmic hospitals scattered in the provinces and from private clinics, a special circular is printed giving the methods of fixation adopted in the laboratory and special boxes are prepared for the dispatch of such parcels from and to the laboratory. The reports, received from the units, containing the history and description of the specimens are type-written in duplicate, one copy is

filed by the pathologist and the other is sent back to the unit concerned to be stuck to the patient's clinical notes and filed amongst the interesting cases. In urgent cases, the result is sent by telegram. The material varies, and the following list englobes the nature of the specimens:—

- (1) Tumours.
- (2) Excised globes.
- (3) Tarsi (excised).
- (4) Excised sacs (lacrymal).
- (5) Smears (including those sent for the diagnosis of spring catarrh). Diphtheria specimens are examined at the Department of Public Health Laboratories.
- (6) Microscopical examinations of secretions and excrements (urine, stools, blood, sputum, etc).
- (7) Investigations.
- (8) Globes of animals received from the Egyptian Veterinary School of Gîza. This started in 1920 when the investigation of "Periodic Ophthalmia" in horses was undertaken for the discovery if this had a bacterial etiological factor. This investigation gave a negative result. An institute, such as this has been found of considerable benefit and here newly qualified men joining the Ophthalmic Section are required to attend for a month in October during the clinical courses, to learn the practical methods of special bacteriology and for instruction in the preparation of specimens for microscopical examination. These medical officers when sent to the different units in the provinces, are expected to be able to examine the smears of all cases of acute conjunctivitis and corenal ulcers and to prepare specimens for Gîza Laboratory for further reports on their nature.

During the theoretical courses in April, attended by the same men, these are supplemented by lectures on the pathology of the subjects dealt with, as well as demonstrations of microscopical sections bearing to the same subjects.

As in other laboratories museum specimens are stocked and microscopical sections

of special interest are kept for teaching and reference.

If one throws a glance on the statistical figures (see p. 106) interesting facts can be concluded. Out of twenty-seven lid specimens twenty are tumours, eleven of which are malignant. Out of fifty-four specimens of diseases of the conjunctiva three only are malignant tumours and fifteen are degenerative inflammations such as hyaline and amyloid. Malignant tumours of the cornea are nil. The diseases of the iris and ciliary body are mostly inflammatory. The only tumour of the choroid reported this year was a very rare one, simple angioma of a benign nature. Malignant tumours of the retina and orbit are not infrequent. An interesting fact in inflammation of the sac, a good number of these show microscopical picture similar to trachoma of the conjunctiva. Out of fifty-four specimens in which spring catarrh was suspected clinically, only eleven are positive.

# 5.—OPHTHALMIC INSPECTION AND TREATMENT AT THE GOVERNMENT PRIMARY SCHOOLS.

#### A.—1921-1922.

The ophthalmic clinics which have been established at sixteen of the Primary Schools of the Ministry of Education are effecting a remarkable change in the condition of the eyes of the pupils. It is well known now, thanks to the careful statistical work which has been carried out during the last fifteen years by the Ophthalmic Section of the Department of Public Health, that an average of 90 per cent of the pupils in all the schools show evidence on expert examination of trachoma either in its active form or in a cured or partially cured form. It must be insisted on that such statistics can only be correctly made by an ophthalmic surgeon of experience working under high professional supervision and according to a carefully arranged plan.

But in these reports on the ophthalmic progress of Egypt it has always been stated that the inspection of the pupils and the compilation of statistics is valueless unless

combined with an adequate system of treatment. It may also be stated that the examination of a large number of pupils for the purpose of detecting whether or not they have trachoma (this entails manipulation of the eyelid in order to see its under-surface); in the hands of a medical officer who is not an ophthalmic expert is a very serious danger to all the pupils and especially to those who are still unaffected with any eye disease, owing to the danger of infecting them.

There appears to be, even in some medical quarters, an idea that all that is required in running a school ophthalmic clinic is for the medical officer to see whether or not the pupil has granulations or cicatrices signicative of trachoma, and perhaps to order drops to be used by some of the pupils. But the diagnosis of trachoma is a much more difficult

matter than this.

Treatment of trachoma is the work of an expert. It entails the danger if carried out by a medical officer who is not an ophthalmic surgeon, of infecting healthy pupils, and of doing serious damage to the eye, which may result in irreparable loss of sight. To be of the slightest benefit the eyelids must be everted with full antiseptic precautions,

and a powerful drug applied to the whole of the conjunctiva.

In the sixth Annual Report of the Ophthalmic Section (1918), it was stated that the application of antiseptic drops alone seemed to have had the effect of causing a real improvement among the trachomatous pupils of Faîyûm School, but that this required corroboration. It must now be stated that while it was perfectly true that these pupils did improve, it was because such a large number of them went to the local ophthalmic surgeon at his private clinic for more effective treatment, and not because the mere instillation of drops was entirely effective.

No easy method of curing trachoma has yet been discovered although experiments are still being carried on with a view to reduce, if possible, the interference of the Ophthalmic

Surgeon.

The danger of acute ophthalmias (ramad el sadidi el had) is always present in the spring and autumn of each year with the responsibility of advising on the condition and its treatment.

The testing of the visual acuity of all the pupils and the prescription of spectacles is

obviously the business of an expert.

Besides the difficulty of keeping careless pupils supplied with spectacles which are constantly breaking, the constantly altering astigmatism caused by the changing curvature of the cornea due to trachoma is a difficult matter to deal with, as when cylindrical glasses are ordered to correct this, they not infrequently have to be changed after some months.

Ophthalmic inspection and treatment are carried out at the present time by the Ophthalmic Section of the Department of Public Health at the primary schools shown

below:—

Cairo.—Husseinîya, Muhammad Aly.

Alexandria.—Râs el Tin, Moharram Bey.

Provinces.—Tanta, Asyût, Mansûra, Beni Suef, Zagazig, Damanhûr, Shibîn el Kôm, Sohâg, Minya, Faîyûm, Benha, Gîza, Qena (will be commenced in next school session 1922–1923).

The work is carried out as a part time job at the request of the Ministry of Education and the charge is borne by the budget of the Department of Public Health and shown as services rendered to the Ministry of Education. It is therefore not an additional charge on the budget of the Ministry of Education. The sum at the present time is L.E. 545. The medical staff who carry out the work do not get any payment for their labours at the schools. The work is carried on cheerfully by them in addition to their present exhausting hospital work, as they know that it is of value to their country and also that the fatiguing work of inspection is carried out by the inspectors without extra pay.

The only advantage which any one has been able to find as accrueing to the ophthalmic staff is that they get an experience of trachoma in all its stages, and that it is possible to study and treat the disease with greater care than in the crowded out-patient departments

of ophthalmic hospitals.

There can be no doubt that the present arrangement whereby the ophthalmic work is carried out by the Department of Public Health is very much better for the pupils than if carried on by medical officers of the Ministry of Education. It is also certainly very much more economical.

If an extension of the present system of ophthalmic treatment to other primary schools in Cairo by the Department of Public Health is desired an estimate of the cost can be prepared. All such work would have to be carried out gradually, and certain groups of neighbouring schools should be first undertaken such as Abdîn, Qerabîya, Muhammadîya, Munîra.

The utility of the clinics is shown by the reduction of the more serious stages of trachoma from 62 per cent at Tanta in 1907, to an average of 10 per cent at all the schools

at the present time.

It is claimed that although this may be in some degree a natural process, it is partly the result of the careful and systematic treatment which has been carried out by the

ophthalmic surgeons.

It is to be noted that all methods of treatment which entail manipulation of the cyclid, of the patient, as in the application of drugs to the lining membrane of the upper lid are carried out by fully qualified surgeons and not by male or female hospital attendants.

It has been previously pointed out that trachoma appears to be closely related to the age of the pupils, the more serious stages being common in the first school year and less common in the fourth year. This is the result of the gradual process of cicatrisation which the life history of the disease manifests. These serious stages diminish from approximately 42 per cent in the first year, 26 per cent in the second year, 17 per cent in the third year to 16 per cent in the fourth year.

Spectacles have been ordered for a total of 321 pupils who are now in the schools during this and previous years. On the day of the general inspection, 215 pupils were wearing their correction, 75 pairs of spectacles were on order or under repair while thirty-one pupils were not wearing their glasses either because they did not like them or because

they had forgotten them at home.

It is a matter of great importance to note that 36 per cent of the pupils have insufficiently good vision to enable them to attain to the very low visual standard demanded for candidates to the ranks of the pensionable civil service (6/12 and 6/12 or 6/6 and 6/18). This defect of vision can only in certain cases, be corrected by spectacles: 137 pupils were enabled to attain to the Government standard, while 184 pupils who were refracted under atropin failed to reach this degree of vision.

The deficient vision is due, in a large number of cases, to corneal opacity (11 per cent of all the pupils have an opacity in one or both corneæ); this opacity in some cases is due to cicatrization after ulceration, and in other cases to trachomatous pannus. In yet

other cases to ametropia, frequently astigmatic.

#### B.—1922–1923.

The schools treated were the Government Primary Schools of Tanta, Asyût, Mansûra, Beni Suef, Zagazig, Damanhûr, Shibîn el Kôm, Sohâg, Minya, Faîyûm, Gîza, Benha, Moharram Bey, and Râs el Tîn at Alexandria, Husseinîya and Muhammad Aly at Cairo. Thus all the primary schools in the Mudîrîya towns in which there is an ophthalmic hospital are provided with proper inspection and treatment. The hospital at Qena was delayed in completion and has only just been opened: the ophthalmic work in the primary school at this town will be commenced in October. There is as yet no permanent hospital at Aswân town, the province being served by a travelling hospital which only spends part of the year at Aswân town. Until a permanent hospital is built (the principle of building one is accepted by the Government), it is impossible to undertake the work.

Arrangements are also in force for the treatment of the pupils of the secondary schools at Tanta and Asyût who require it. However, with the advance in the age of the pupils. However as has been shown in these Reports, there is much less necessity for regular treatment among the secondary schools students than among these of the primary schools.

No further extension of ophthalmic treatment in the schools of Cairo or Alexandria or inauguration in the elementary schools (kuttabs or maktabs) can be carried out without an increase of staff and the elapse of the period necessary for training the new medical

officers in ophthalmic work.

The percentage of the pupils inspected who were found to show evidence of past or present trachoma was almost exactly 90 per cent. It has been explained in these Reports on various occasions during the last fifteen years that the methods of treatment used were of an experimental nature. During the last year, seven different forms of treatment were being carried out at different groups of schools with a view to discovering what form was the most satisfactory, considering the amount of time at the disposal of the school

medical officer. There is clearly no doubt that in places where a large number of persons are in need of treatment, methods must be used which are applicable to large numbers. For instance where a medical officer has to apply active treatment to 120 pupils between the hours 3 p.m. to 4 p.m. a very different scheme may have to be adopted to that which a specialist would apply in his private consulting room. However, it is almost invariably the case that the successful private practitioners of Egypt adopt the same methods of treatment as those carried out as a routine at the ophthalmic hospitals and at the school ophthalmic clinics. It is owing to the close observation which has been possible in these school clinics that a great advance in our experience has been gained. The treatment of trachoma among private patients and among hospital patients is unsatisfactory because the patients are inclined to stop their treatment if they get a little better, or if the treatment is uncomfortable, while at the schools the patients are continuously under observation.

The methods of treatment which have been adopted depend on the various stages

of trachoma.

#### Instructions for carrying out Clinical Work at Schools.

#### (1) The treatment of Conjunctivitis.

- (a) Acute conjunctivitis should be treated by silver nitrate 2 per cent solution and constant wash with ordinary surgical eusol or potassium permanganate solution 1 in 5,000, which is to be used at the ophthalmic room under the superintendence of the school tamurgi (hosiptal attendant).
- (b) Angular conjunctivitis and blepharitis: painting the conjunctiva of the lids with AgNO3 2 per cent solution especially the border of lids; yellow oxide of mercury ointment to lid margins.

#### (2) The Treatment of Trachoma.

- (Ti) By copper sulphate 3 per cent drops applied twice a day, or by silver nitrate 2 per cent solution applications when there is discharge. Copper sulphate 10 per cent painting may be used when advisable.
- (Tiia) By rupturing the follicles after cocainization (at the school ophthalmic room) with Graddy's forceps. No scraping with a spoon is to be done. Undue force should not be used and endeavour should be made to cause as little bleeding as possible: this mechanical treatment may require several applications. A bottle of eusol and some cotton wool should be given to each pupil after mechanical treatment. This should be followed by HgCL2 one per cent solution applied to the conjunctiva firmly with a glass rod and cotton wool for 10 applications. During this time further mechanical treatment may be applied if there are still follicles unruptured. After every mechanical treatment a period of at least five days HgCL2 rubbing should be applied.

After this CuSO4 drops 3 per cent should be given until cicatrization is complete.

- (Tiib') Try effect of mechanical treatment as above. If without benefit advise combined excision.
  - (Tiib") Palliatives or combined excision.
  - (Tiic) Silver nitrate solution 2 per cent.
- (Tiii) CuSO4 3 per cent drops or painting with CuSO4 solution 10 per cent Foci of post trachomatous degeneration are to be incised after cocainization; this is part of mechanical treatment.

It is to be particularly noted that mechanical treatment is not an operation and no permission from the parents is required. If any pupil however, refuses to undergo the treatment, the parent should be communicated with through the headmaster to obtain his insistance on the treatment.

As an instance of the improvement that has taken place a comparison may be made between the condition of the corneæ of the pupils at Tanta Primary School in 1913 and in 1923.

TABLE X.—Comparison of corneal opacity among pupils of Tanta Primary School in the years 1913 and 1923.

YEAR.	Both Corneæ Clear.	One Cornea clear the other showing opacity.	Opacity of both corneæ.
1913 1923	182 512	41	126 <sup>3</sup> .

This improvement is a most remarkable one.

During the present school year the serious stages of trachoma (1 and 2) amounted to 32·3 per cent. This was reduced by treatment to 14·5 per cent by the end of the treatment session. This percentage is worked out from a total of 6,140 pupils under observation at the schools dealt with.

#### 6.—HOSPITAL STATISTICS.

TABLE XI.—SYNOPSIS OF WORK OF HOSPITALS SINCE 1919.

Permanent       13       15       16       16         New patients treated       76,525       94,921       113,201       133,756         Total attendances of out-patients       906,961       1,064,509       1,322,074       1,510,026         Operations performed       49,974       56,503       65,378       76,03         In-patients       3,613       4,232       4,513       4,79         Details:—       83,577       108,113       127,223       147,49         Patients regularly treated       76,525       94,921       113,201       133,75         Incurable cases       4,467       6,400       6,727       6,58         Blind in one eye       8,537       9,833       10,566       12,52         Blind in both eyes       4,278       5,154       5,053       4,85	TABLE AL.—SYNOPSIS OF			TT. V.				
Travelling       5       5       5       5       6         Permanent       13       15       16       16       16         New patients treated       76,525       94,921       113,201       133,756         Total attendances of out-patients       906,961       1,064,509       1,322,074       1,510,026         Operations performed       49,974       56,503       65,378       76,03         In-patients       3,613       4,232       4,513       4,79         Details:—       76,525       94,921       113,201       133,75         Incurable cases       4,467       6,400       6,727       6,58         Blind in one eye       8,537       9,833       10,566       12,52         Blind in both eyes       4,278       5,154       5,053       4,85         Trichiasis cases examined       20,052       23,154       28,245       32,72		1			1919	1920	1921	1922
Permanent       13       15       16       16         New patients treated       76,525       94,921       113,201       133,75         Total attendances of out-patients       906,961       1,064,509       1,322,074       1,510,029         Operations performed       49,974       56,503       65,378       76,03         In-patients       3,613       4,232       4,513       4,79         Details:—       83,577       108,113       127,223       147,49         Patients regularly treated       76,525       94,921       113,201       133,75         Incurable cases       4,467       6,400       6,727       6,58         Blind in one eye       8,537       9,833       10,566       12,52         Blind in both eyes       4,278       5,154       5,053       4,85         Trichiasis cases examined       20,052       23,154       28,245       32,72	Hospitals in existence:—			,		•		
New patients treated	Travelling	•••	•••		5	5	5	5
Total attendances of out-patients	Permanent	• • •	•••		13	15	16	16
Operations performed	New patients treated	•••	• • •		76,525	94,921	113,201	133,750
Details:—       3,613       4,232       4,513       - 4,79         Patients examined        83,577       108,113       127,223       147,49         Patients regularly treated        76,525       94,921       113,201       133,75         Incurable cases        4,467       6,400       6,727       6,58         Blind in one eye        8,537       9,833       10,566       12,52         Blind in both eyes        4,278       5,154       5,053       4,85         Trichiasis cases examined        20,052       23,154       28,245       32,72	Total attendances of out-patients	• • •	•••	•••	906,961	1,064,509	1,322,074	1,510,020
Details:—       83,577       108,113       127,223       147,49         Patients regularly treated        76,525       94,921       113,201       133,75         Incurable cases        4,467       6,400       6,727       6,58         Blind in one eye        8,537       9,833       10,566       12,52         Blind in both eyes        4,278       5,154       5,053       4,85         Trichiasis cases examined        20,052       23,154       28,245       32,72         20,052       23,154       28,939       30,86	Operations performed	•••	• • •	•••	49,974	56,503	65,378	76,035
Patients examined          83,577       108,113       127,223       147,49         Patients regularly treated          76,525       94,921       113,201       133,75         Incurable cases         4,467       6,400       6,727       6,58         Blind in one eye         8,537       9,833       10,566       12,52         Blind in both eyes         4,278       5,154       5,053       4,85         Trichiasis cases examined         20,052       23,154       28,245       32,72	In-patients	•••	•••	•••	3,613	4,232	4,513	<b>4,798</b>
Patients examined          83,577       108,113       127,223       147,49         Patients regularly treated          76,525       94,921       113,201       133,75         Incurable cases         4,467       6,400       6,727       6,58         Blind in one eye         8,537       9,833       10,566       12,52         Blind in both eyes         4,278       5,154       5,053       4,85         Trichiasis cases examined         20,052       23,154       28,245       32,72								
Patients examined           83,577       108,113       127,223       147,49         Patients regularly treated          76,525       94,921       113,201       133,75         Incurable cases         4,467       6,400       6,727       6,58         Blind in one eye         8,537       9,833       10,566       12,52         Blind in both eyes         4,278       5,154       5,053       4,85         Trichiasis cases examined         20,052       23,154       28,245       32,72	Detaile							
Incurable cases		• •••	•••	•••	83,577	108,113	127,223	147,492
Incurable cases                  8,537       9,833       10,566       12,52         Blind in both eyes           4,278       5,154       5,053       4,85         Trichiasis cases examined	Patients regularly treated		• • •	•••	76,525	94,921	113,201	133,750
Blind in one eye	Incurable cases		•••	r••	4,467	6,400	6,727	6,582
Blind in both eyes 4,278 5,154 5,053 4,85  Trichiasis cases examined				•••	8,537	9,833	10,566	12,524
Trichiasis cases examined	00.11					5,154	5,053	4,850
Trichiasis cases examined		•		•••	j 1			
arrag anamatad an and chired see #19 71	•	• •••	•••					
	" eyes operated on and cured	• •••	•••	•••	24,611	27,081	28,939	30,809

# Table XII.—Work done at all Ophthalmic Hospitals during 1922.

	1
1. In-patients: Total Number	. 4,798
(Number of available beds 286)  Number of diets issued	. 95,032
2. Operations:—	
I. Major:—	. 641
(a) Senile cataract $\cdots$	240
(b) Soft cataract $\cdots$	30.860
(d) Other operations $\cdots \cdots \cdots$	7 0/19
Total	. 39,692
II. Minor	36,343
GRAND TOTAL	76,035
3. Out-patients:—	A AEIT
I. Incurable	4,457
II. Postponed	$\begin{array}{c c} & 9,285 \\ & 133,750 \end{array}$
III. Tickets issued, i.e. new cases	1 269 598
IV. Old cases	
VI. Average number of visits made to hospital by patient under regular	r   1,010,020
treatment (old cases+tickets issued) ÷ tickets issued. The factor	or
of incurable cases is neglected	11.2
VII. Discharges:—	
	17,792
7 ( 75 1 1 1	3,917
	$\frac{2,125}{55,794}$
(d) Spontaneously ceased to attend after having attended only once.	25,734
(e) Spontaneously ceased to attend after having attended more than one	ee   68,183
VIII. Trichiasis cases seen among new out-patients:—	25,712
(a) No previous operation having been performed	20,112
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4,453
ii. Unsuccessfully (not at an Ophthalmic Hospital, but probab	
1 1 1 1 . \	2,555
TYZ C	477
X. General anæsthetics	4,735
XI. Constant wash cases (number of days' treatment)	272,689
XII. Ages of patients examined:— PER CENT	
Under one year 5.0	,
From 1 to 5 years	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
7.6	,
7.0	,
26 30 8.	1
31 35 7	
$^{,,}$ $^{,}$	79 9,081
, 41 $$ , 45 $$ , 5.	54 7,413
$,$ $46$ $,$ $50$ $,$ $\dots$	
$,, 51$ $,, 55$ $,, \ldots$ $\ldots$ $\ldots$ $\ldots$ $\ldots$ $\ldots$ $\ldots$ $\ldots$ $\ldots$ $\ldots$	
$,, 56, 60, \dots \dots$	
$,, 61, 65, \dots \dots$	
$_{,,}$ $_{,}$	
Over 70 years 1.	$\begin{array}{c c} 36 & 1,822 \\ \hline \end{array}$
Total	133,750
XIII. Origin of patients:—	0 - 0
Patients from:—	
(a) Town in which hospital is situated	53,093
(b) Markaz in which hospital is situated	47,946
(c) Other Markazes	$\dots \mid 32,711$
Total	- 133,750
10TAL	" 155,150

N.B.—3. Incurable cases do not receive tickets, but are recognized as soon as seen by the surgeon as both incurable and devoid of surgical interest.

VII. (c) Incurable cases include those which are recognized as soon as seen by the surgeon as incurable but are given tickets for statistical or other purposes.

#### TABLE XIII.—LIST OF DISEASES,

AME	TROPIA :—									1							
	Hypermetropia			• •	• • •	•••	•••	• • •	• • •	• • •	***	•••	• • •	• • •	• • •		512
2	Myopia	•••	•••	• •	•••	• • •	• • •	•••	• • •	* * *	• • •	•••	• • •	• • •	• • •	***	. 680 551
	Astigmatism		• • • • • • • • • • • • • • • • • • • •	• •	• • •	• • •	•••	• • •	• • •	40 14 40	• • •	• • •	• • •		• • •	•••	$\begin{array}{c} 931 \\ 92 \end{array}$
	Presbyopia	•••	• • • • •	••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	,
Con	JUNCTIVA :—																
		gono	രഹരവ	1										•		. ,	11,305
	Conjunctivitis,	Mora	x-Ax	ı enfe	eld	• • •	• • •	• • •	•••		• • •	• • •	• • •	• • •	• • • •	• • •	1,416
	"		ı-Wee		• • •	•••	•••			· ·			•••				5,421
	,,		moco			•••	• • •	•••			• • •	• • •	• • •	• • •	• • •	• • •	301
	Other organism	ns or	negat	tive		•••	•••	•••	• • •	•••	•••	• • •	• • •	• • •	• • •	• • •	2,897
	Trachoma I IIa		•••	• •	• • •	•••	• • •	•••	•••	* • •	•••	•••	• • •	• • •	• • •	•••	7,272 $14,333$
	" III			••	•••	• • •	•••		•••	•••	• • •	• • •	• • •	• • •	• • •	• • •	1,366
	,, IIb		•••	••			•••	•••	•••	•••	• • •	• • •				• • •	49
	, II $c$	• • •		••	• • •	• • •	•••		• • •	•••	• • •	• • •	• • •	• • •	• • •	• • •	576
	" III	inclu	ding	pos	t tra	achoi	matc	ous d	egen	erati	on	•••	• • •	• • •	• • •	•••	82,311
	,, IV	•••	••••	••	•••	•••	****	····	•••	•••	•••	· • • • ·			• • •		4,562 $4,405$
	Phlyctenule		••• • • • •	••	•••	•••	••••					•••	• • •	• • •			2,005
	Pterygium Pinguecula	****	•••	••	•••		• • •	• • •	• • •	• • •	• • •						350
	Xerosis	•••		••	•••		•••	•••	•••	• • •	•••	•••	• • •	•••	•••	• • •	235
	Symblepharon	•••		••	• • •				• • •	•••	•••		•••	•••	• • •	• • • •	107
	Dermoid	•••		••	•••		• • •	• • •	• • •	•••	•••	•••	• • •	• • •	• • •	•••	14
	Other condition														•		231
	Argyrosis			••	•••	•••	•••	• • •	· • • • •	• • •	• • •	• • •	• • •	• • •		•••	38
	Colloid de Hypertro			ماء	•••	• • •	•••	• • •	• • •		• • •	•••	•••			•••	89
	Injuries (foreign	on bo	dies.	hur	 n. е	tc)	• • •	• • •	•••		•••				• • •	• • •	62
	Cyst	511 200	••••		•••	•••	•••			•••			• • •	• • •	• • •	• • •	22
																	. ,
Eye	elids:—	,						-									.*
	Pediculus cilia	ris				•••	• • •					• • •	• • •		•••	• • •	314
	Trichiasis and																
	THOMASIS and	entro	pion					• • •	• • •			• • •	• • •	• • •	• • •	• • •	27,809
	Distichiasis and	entro	-	•••	• • •	**	• • •	•••	• • •	• • •	•••	•••	• • •	• • •	•••	• • •	. 41
	Distichiasis Ectropion	•••		•••		ME						• • •		•••	•••	•••	386
	Distichiasis Ectropion Lagophthalmo	 os	•••	• • •	•••	* * *	• • •	•••	•••	• • •	•••	•••	•••	***	• • •	•••	41 386 820
	Distichiasis Ectropion Lagophthalmo Blepharitis	 os	•••	•••		•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	386
	Distichiasis Ectropion Lagophthalmo Blepharitis Hordeolum	 os 	•••	•••	•••	•••	•••	•••	•••	• • •	•••	•••	•••	***	• • •	•••	41 386 820 15,880 870 135
	Distichiasis Ectropion Lagophthalmo Blepharitis Hordeolum Wart	 os	•••	•••		•••	•••	•••	•••	•••	•••	•••	• • • • • • • • • • • • • • • • • • • •	***	•••	•••	41 386 820 15,880 870 135 718
	Distichiasis Ectropion Lagophthalmo Blepharitis Hordeolum Wart Chalazion Eczema	os		•••	•••	•••	•••	•••		•••	•••	•••	•••	•••	•••	•••	41 386 820 15,880 870 135 718 140
	Distichiasis Ectropion Lagophthalmo Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer	os		•••		•••	•••	•••			•••			•••	•••	•••	41 386 820 15,880 870 135 718 140 13
	Distichiasis Ectropion Lagophthalmon Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid	os 		•••													41 386 820 15,880 870 135 718 140 13 38
	Distichiasis Ectropion Lagophthalmo Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis	 os  		•••													41 386 820 15,880 870 135 718 140 13
	Distichiasis Ectropion Lagophthalmon Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas	os															41 386 820 15,880 870 135 718 140 13 38 144 7
	Distichiasis Ectropion Lagophthalmon Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes	os		•••													41 386 820 15,880 870 135 718 140 13 38 144 7 13 19
	Distichiasis Ectropion Lagophthalmon Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas	os															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7
	Distichiasis Ectropion Lagophthalmon Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumoun																41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7
	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma																41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7
La	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumour Leucodermia	os															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7
La	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumour Leucodermia	os															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7 39 2
La	Distichiasis Ectropion Lagophthalmodelepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Erysipelas Chancre Epithelioma Other tumour Leucodermia  crimal Apparat Lacrimal fistores	os				**											41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7
La	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumous Leucodermia  cerimal Apparat Lacrimal fiste Stenosis of the	os															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7 39 2
La	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumous Leucodermia  crimal Apparat Lacrimal fists Stenosis of the Dacryocystiti	os				**											41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7 39 2
La	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumous Leucodermia  cerimal Apparat Lacrimal fiste Stenosis of the	os															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7 39 2
, .	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumous Leucodermia  crimal Apparat Lacrimal fists Stenosis of the Dacryocystiti	os															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7 39 2
, .	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumour Leucodermia  cerimal Apparat Lacrimal fists Stenosis of the Dacryocystiti  prinea:—	us:— ula ne duo s, acu chro															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7 39 2 93 41 55 1,058
, .	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumour Leucodermia  cerimal Apparat  Lacrimal fiste Stenosis of the Dacryocystiti  "" ornea :— Ulceration, s	os															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7 39 2 93 41 55 1,058
, .	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumour Leucodermia  cerimal Apparat Lacrimal fists Stenosis of the Dacryocystiti  """ "" "" "" "" "" "" "" "" "" "" ""	us:—  ula ne due s, acu chroi															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7 39 2 93 41 55 1,058
, .	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumour Leucodermia  cerimal Apparat  Lacrimal fiste Stenosis of th Dacryocystiti  """ """ """ """ """ """ """ """ ""	us:—  ula  ne duc s, acu chroi															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7 39 2 93 41 55 1,058
Co	Distichiasis Ectropion Lagophthalmore Blepharitis Hordeolum Wart Chalazion Eczema Rodent ulcer Dermoid Ptosis Erysipelas Herpes Chancre Epithelioma Other tumour Leucodermia  cerimal Apparat Lacrimal fists Stenosis of the Dacryocystiti  """ "" "" "" "" "" "" "" "" "" "" ""	us:—  ula ne due s, acu chroi															41 386 820 15,880 870 135 718 140 13 38 144 7 13 19 7 39 2 93 41 55 1,058

## TABLE XIII.—LIST OF DISEASES (continued).

ornea (continued):—															
Keratitis, interstitial	•••		•••	•••	• • •	•••	• • •	• • •	•••	•••	•••	•••			22
,, trachomatous		• • •		• • •	•••	• • •	•••	• • •	•••	• • •	•••	•••	•••	40	244
Nebula or leucoma	• • •	•••	• • •	•••	•••	• • •	•••	•••	•••	•••	•••	•••	•••		,995 ,603
Adherent leucoma	•••	• • •	•••	• • •	•••	•••	•••	•••	• • •	•••	•••	•••			,758
Totally opaque cornea Staphyloma	•••	• • •	•••	•••	• • •	•••	•••	•••	•••	•••	•••				,772
Xerosis of cornea	•••	• • •	•••		•••	•••	•••	•••	•••	•••	•••	•••			414
Abscess of cornea	•••	•••	• • •		•••	•••	•••	• • •	•••	•••	•••	•••			71
Conical cornea			•••	•••	•••	•••	•••	• • •	•••	•••	•••	•••	•••		288 278
Injuries (burn, foreign	bodie	es, etc	c.)		•••	•••	•••	•••	•••	•••	•••		•••		210
imbus :—															
Tumours	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		14
ris:—															
															769
Anterior synechia		• • •	• • •	• • •	• • •	• • •	• • •	•••		•••		•••			641
Posterior ,, Inflammation	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		329
Iris bombé		•••		•••	•••	•••	•••	•••	•••	•••	•••	•••			17
Irido-dialysis		•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		53
Congenital coloboma	• • •	•••	•••	•••	•••	•••	• • •	•••	•••	•••	•••	•••			$\frac{22}{8}$
Aniridia	_		•••	•••	•••	•••	•••	•••	• • •	• • •	•••	•••	• • • •		4
Persistent pupillary m Iridodonesis	iemor	аце	•••	•••	•••	•••	•••	•••	•••	•••	•••	• • •	.,.		76
Various	•••	•••	•••	•••	•••		•••	•••	•••	•••	•••	•••	•••		25
Sclerotic :—															
															728
Ciliary staphyloma		•••	• • •	• • •	•••	•••	•••	. •••	•••	•••	•••	•••	•••		6
Episcleritis Injuries		•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		•••		24
·															
Choroid:—									v						
Coloboma		•••	• • •	• • •	•••	• • •	• • •	• • •	•••	•••	•••	• • •	•••		4
Rupture		•••	• • •	• • •	• • •	• • •	• • •	•••	•••	• • •	•••	•••	••• '		26
Disseminated choroidi		• • •	•••	•••	•••	•••	•••	•••	•••	• • •	•••	• • •	•••		18
Choroido-retinitis Atrophy of choroid		•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		6
Tumours		•••	•••	•••	•••	•••	•••	•••	•••	• • •	• • •	• • •	•••		4
Albinismus		• • •	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		
Datin a s															
Retina :—															
Retinitis, Albuminuri			etic	• • •	•••	•••	•••	•••	•••	•••	•••	• • •	•••		
", syphilitic			•••	• • •	•••	•••	•••	•••	•••	•••	•••	• • •	•••		6
,, pigmentosa Detachment of retina			•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		6
Embolism and throm						•••	•••	•••	•••	•••	•••	•••	•••	1 0	
Glioma		•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		,
Other conditions		• • •	• • •		•••	•••			•••	• • •	•••	•••	•••		$\frac{1}{3}$
Night blindness (in v	vhich	retin	itis :	pigm	iento	sa 18	s abs	sent)	• • •	•••	•••	•••	•••		9
Optic Nerve:—															
Neuritis							• • •	•••	•••	•••	•••	•••			4
Atrophy		• •••	•••	•••	•••	•••	•••	•••	•••	•••	•••	,	•••		27
Opaque nerve fibres	•••		•••	• • •		•••	•••	•••	•••	•••	•••	•••	•••		
0.11	••	• •••	•••	•••	• • •	•••	•••	•••	•••	•••	•••	•••	•••		
Lens:—															
Catarast canila															2,58
Cataract, senile soft	•• ••	• •••	•••	• • •	•••	• • •	•••	• • •	• • •	•••	• • •	111	111		21
· · · · · · · · · · · · · · · · · · ·			• • •	•••	•••		• • • •	•••	•••	•••	•••	•••	•••		7
,, lamellar .			•••	• • •	•••	• • •		•••	•••	•••	•••	•••	•••		7
,,															

### TABLE XIII.—LIST OF DISEASES (continued).

		··														
I ama (aantimus	J.															
Lens (continued	a) :															
Cataract a	anterior p	olar	• • •	•••	•••	•••	• • •	• • •	•••	• • •		• • •	•••	• • •	• • •	558
		,,	•••		•••	•••	•••	• • •	•••	•••	• • •	• • •	• • •	• • •	• • •	24
,, d	lislocated,				•••	•••	•••	•••	•••	•••	• • •	•••	•••	• • •	•••	105
"	"	_	erativ geni		•••	•••	•••	•••	•••	•••	• • •	•••	•••	* * *	• • •	33 5
Áphakia	,,	•••		•••	•••	•••	•••	•••	•••	• • •	•••	•••	•••	• • • •	• • •	374
Secondary			• • •	• • •			•••	•••	•••	•••		• • •	• • •	• • •	•••	175
Ectopia le	entis	•••	•••	•••		•••	•••	•••	• • •	•••	• • •	• • •	• • •	• • •	• • •	
Vitreous :—																
	··· ···	• • •	•••	•••	• • •		•••	• • •	• • •	• • •	• • •	•••	• • •	• • •	• • •	112
Foreign b	odies	•••	•••	• • •	•••	•••	• • •	• • •	•••	•••	•••	•••	•••	• • •	•••	2
Muscles :																
Strabismu		_	• • •	•••	• • •	• • •	•••	•••	•••	•••	•••	•••	•••	•••	•••	369
,,	converg		• • •	•••	•••	• • •	•••	• • •	•••	• • •	• • •	•••	•••	•••	• • •	2,037
Hotoropho	diverge:		•••	•••	•••	•••	•••	•••	• • •	•••	•••	•••	•••	• • •	•••	2,522
Heteropho Nystagmu		•••	•••	•••	• • •	•••	• • • •	•••	• • • •	• • • •	•••	•••		• • •	• • •	558
•		•••	•••	•••	•••		•••	•••	•••	•••		•••	•••	•••	•••	11
OI.																
Glaucoma:—																
Primary.	acute		•••	) +	1 7	•	1 1		1				L~ .	1	(	39
Primary,	acute sub-acute	•••		$\left\{ \begin{array}{c} I_{\mathrm{I}} \end{array} \right.$	nclud	ing a	absol	lute	glaud	coma	cau	sed	by a	cute	, {	97
,, s	sub-acute chronic			] Ir	nclud	ing a	absol o-acu	lute .te o	glaud r chi	coma ronic	cau glaı	sed icom	by a.a.	cute	, {.	97 $2,376$
,, 8	sub-acute chronic	•••	•••	} Ir	nclud 	ing a	absol o-acu 	lute te o	glaud r chi	coma ronic 	cau glai 	sed icom	by a.	cute 	, {	97
,, s	sub-acute chronic	•••	•••	} Ir	nclud 	ing a	absol o-acu 	lute te o: 	glaud r chi	coma ronic 	cau glau 	sed icom	by a a. 	cute 	, { 	97 $2,376$
Secondary	sub-acute chronic	•••	•••	} Ir	nclud 	ing a sub	absol o-acu 	lute te o	glaud r chi	coma ronic 	cau glai 	sed icom	by a.	cute 	, { 	97 $2,376$
Secondary  Globe:—	sub-acute chronic	•••	•••	} Ir	nclud 	ing a	absol o-acu 	lute te o	glauc r chi	coma ronic 	cau glai 	sed icom	by a	cute 	, {	97 2,376 3,664
Secondary  Globe: Shrunken	sub-acute chronic 7 globe			<b></b>		sul			r chi	coma conic 	glaı	sed icom	by a.			97 2,376 3,664 4,878
Secondary  Globe:—  Shrunken Buphthali	globe mos			 		sul	 			 	gla1					97 2,376 3,664
Secondary  Globe:—  Shrunken  Buphthali  Exophtha	sub-acute chronic 7 globe mos Ilmic goit	  re		···		sul			r chi	coma ronic 	glaı	sed icom	by a			97 2,376 3,664 4,878
Secondary  Globe:—  Shrunken Buphthali	sub-acute chronic 7 globe mos llmic goit almitis			 		suk	 			 	glaı		a. 			97 2,376 3,664 4,878 34 — 237 16
Secondary  Globe:—  Shrunken Buphthali Exophtha Panophth Microphth	globe mos lmic goit almitis halmos	  re		···		suk	 			 	gla1	 	a. 			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphth Anophtha Injury	globe mos lmic goit almitis halmos	  re 				suk	 			 	gla1		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthali Exophtha Panophth Microphth	globe mos lmic goit almitis halmos	 re		···		suk	 			 	gla1		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphth Anophtha Injury	globe mos lmic goit almitis halmos	  re 				suk	 			 	gla1		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphth Anophtha Injury	globe mos lmic goit almitis halmos	  re 				suk	 			 	gla1		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—	globe mos lmic goit almitis halmos	  re 				suk	 			 	gla1		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours	globe mos lmic goit almitis halmos lmos	  re 				suk				 	gla1		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthali Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours Cellulitis	globe mos lmic goit almitis halmos lmos	  re 		···		suk	 			 	gla1		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthali Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours	globe mos lmic goit almitis halmos lmos	  re 				suk					glan		a			97 2,376 3,664  4,878 34  237 16 66 109 1  17 9 3
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours Cellulitis Tenonitis Periostitis Injuries	globe mos lmic goit almitis halmos lmos	  re 		···		suk	 				glan		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthali Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours Cellulitis Tenonitis Periostitis Injuries Cyst, from	globe mos lmic goit almitis halmos lmos	re				suk	 				glan		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthali Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours Cellulitis Tenonitis Periostitis Injuries Cyst, from "ethe	globe mos lmic goit almitis halmos lmos  ntal moidal	re		···		suk	  				glan		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphtha Anophtha Injury Exophtha  Orbit:—  Tumours Cellulitis Tenonitis Periostitis Injuries Cyst, from "ether Contracted	globe mos lmic goit almitis halmos lmos moidal ed socket	re				suk	  				glan		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthali Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours Cellulitis Tenonitis Periostitis Injuries Cyst, from "ethe	globe mos lmic goit almitis halmos lmos moidal ed socket	re				suk	  				glan		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours Cellulitis Tenonitis Periostitis Injuries Cyst, from ,, ethe Contracte Fly-blown	globe mos lmic goit almitis halmos lmos moidal ed socket	re				suk	  				glan		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours Cellulitis Tenonitis Periostiti Injuries Cyst, from ", ethe Contracte	globe mos lmic goit almitis halmos lmos moidal ed socket	re				suk	  				glan		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours Cellulitis Tenonitis Periostitis Injuries Cyst, from ,, ethe Contracte Fly-blown  Blind:—	globe mos lmic goit almitis halmos lmos moidal ed socket n	re				suk	  				glan		a			97 2,376 3,664 4,878 34 ———————————————————————————————————
Secondary  Globe:—  Shrunken Buphthala Exophtha Panophth Microphth Anophtha Injury Exophtha  Orbit:—  Tumours Cellulitis Tenonitis Periostitis Injuries Cyst, from ,, ethe Contracte Fly-blown	globe mos lmic goit almitis halmos lmos  ntal moidal ed socket n	re				suk	  				glan		a			97 2,376 3,664 4,878 34 ———————————————————————————————————

<sup>(1)</sup> Patients are accounted blind who cannot count fingers at one metre.

## TABLE XIV.—LIST OF OPERATIONS.

Eyelids:—														
For Trichiasis and en	tropic	on :—			٠									95 040
Snellen's		• • •	• • •	•••	•••	• • •	•••	•••	•••	• • •	• • •	• • •	· · · · · · · · · · · · · · · · · · ·	$25,049 \\ 83$
Anagnostakis Snellen-Anagnost		• • •	• • •	• • •	•••	• • •	• • •	• • •	•••	•••				185
Canthoplasty			• • •	•••	• • •	•••	•••	•••	•••	• • •	•••	•••		422 $4,716$
Grafting mucous				• • •	• • •	• • •		• • •	• • •	• • •			• • •	1,976
Electrolysis Excision of lash		•••	•••	•••		•••	•••		•••	•••	•••	•••	•••	194 414
Other operations		• • •	•••	•••	•••	•••	•••	• • •	•••	•••	•••	•••	•••	414
For Ectropion:—														
Plastic			• • •	• • •	• • •		•••	•••	•••		•••	•••		23
MacCallan's		• • •	• • •	• • •	• • •	•••	• • •	• • •	•••	• • •	•••	•••		9
Kenneth Scott's Kuhnt's		• • •	• • •	• • •		• • •	•••	• • •			• • •			11
Other operations		•••	• • •		•••	•••	•••	•••	•••	•••	•••	•••	•••	$26 \\ 19$
For ptosis		• • •	•••	•••	• • •	•••	• • •		• • •	•••		• • •		55
For symblepharon .  For hordeolum and	 chalaz		•••	• • • •	•••	•••		•••	•••	•••	•••	•••		$952 \\ 150$
Cyst removed		• • •	•••	•••	•••	•••	•••	•••	•••	• • •	•••		• • • • • • • • • • • • • • • • • • • •	70
Wart excised Restitching wounds.			• • •	•••	•••	• • •	• • •	•••	•••		• • •			49
Opening abscesses .				• • •		•••	•••	•••	•••	•••	• • •	•••		474
Rodent ulcer, excision	on	• • •	•••	•••	• • •	•••	•••	•••	•••	•••	•••	•••		•
Conjunctiva :—														
For trachoma:—														
Expression			• • •		• • •				•••	•••	• • •	• • •		15,603
Scraping				•••	•••	•••	•••	•••	•••	•••	•••	•••		$\substack{2,213\\520}$
Combined excisi Post-trachomato	on ot us de	Heis: gener	ratn ation	•••	•••	• • •		• • •		• • •	•••	•••		13,870
	··· ···			•••	•••	•••	•••	•••	•••	•••	• • •	•••		$\begin{array}{c} 291 \\ 956 \end{array}$
Pterygium	•••		•••	•••	•••	•••	•••	•••	•••	•••	•••	•••		200
Cornea:—														
Foreign body remov	ed			•••		•••	• • •	•••	• • •	• • •	•••	•••	•••	271 87
Sæmisch's section	• • • • • • • • • • • • • • • • • • • •			•••	•••	•••	•••	•••	• • •	• • •	• • •		• • •	61
Cautery Tattooing				• • •	• • •	• • •	•••	•••	•••	•••	•••	•••		4
in the same of the														
Iris:—														0.040
Iridectomy for adhe	erent l	eucor	na	• • •		•••	•••	•••	• • •	•••	•••	•••		$\substack{2,842\\356}$
,, visual ,, for glauco						• • •	• • •		• • •	• • • •	• • •	• • •		466
., preliminar	y for	catai	ract		• • •	•••		•••	•••	•••	•••	•••	•••	$\frac{42}{3}$
Cystoid cicatrix Division of anterior				• • •		•••		• • •			• • •			. 26
Various						•••		•••	•••		•••		•••	76
Lacrimal Sac:														4
Slitting canal Excision	•••			• • •		• • •	• • •		• • •	•••	• • •	• • •	•••	223
Various		•• ••						•••	•••		•••	•••	• • •	568
Lens:—														-
For senile cataract	•													
		atom	177											587
Extraction with ,, after	previ	ous i	ridec	tomy	· · · ·									54
For membrane after	er exti	actio	n :	Disci	ssion			• ••					•••	379
							Tor	TAL (	carri	ed fo	rwar	d		74,380

#### TABLE XIV.—LIST OF OPERATIONS (continued).

s (co	ontinued):—	•													ļ	
								Тот	AL $b$	rougi	ht for	rware	<i>l</i>	•••	•••	74,38
For	soft catara	ct :														
	Extraction	•••		• • •	•••		• • •	•••	•••	•••	•••	•••			• • •	
	Discission	•••		• • •	• • •	• • •	• • •	•••	• • •	• • •	•••	• • •	• • •	•••	•••	
	Curette eva		n	• • •	• • •	•••	• • •	• • •	•••	• • •	•••	•••	• • •	• • •	•••	1
	Paracentesi	is	• •••	•••	•••	•••	•••	.•••	•••	• • •	• • •	• • •		• • •	•••	
For	r membrane	after	evacaı	ıtion	:											
	Discission.		•••		•••	•••		•••	• • •	• • •	•••			• • •	• • •	
	Capsuloton	ay		•••	•••	• • •			• • •	• • •	• • •	•••	• • •	• • •	•••	
,																
obe:-	_															
$\operatorname{Tr}\epsilon$	ephining of	cornea-	sclera	wit	h irio	decto	my		• • •	•••	•••	• • •	•••	• • •	•••	5
	ephining			• • •	•••	•••	•••	• • •		• • •	•••	• • •	• • •	• • •	• • •	
	cision			•••		• • •		• • •	• • •	• • •	• • •	• • •	• • •	•••	• • •	3
	isceration			• • •		• • •	• • •	• • •	•••	• • •	•••	• • •	• • •	• • •	•••	2
Pa	racentesis			• • •	•••	• • •	• • •	• • •	•••	• • •	•••	• • •	• • •	• • •	•••	
1.24.																
bit:-	_															
Ex	enteration			• • •	• • •	• • •		• • •	•••				***			
	r tumour.			• • •	• • •	• • •		• • •		• • •		• • •	• • •	• • •	• • •	
	r dermoid				•••	•••		•••	•••	• • •		• • •	• • •	• • •	• • •	
Fo	r cellulitis			•••	• • •		• • •	•••	• • •	• • •	• • •	•••	• • •	• • •	•••	
Fo	r cyst, front		• • • • • • • • • • • • • • • • • • • •	•••	•••	• • •	• • •	•••	• • •	•••	•••	• • •	• • •	• • •	•••	
		noidal	•••		•••	• • •	•••	•••	•••	• • •	• • •	•••	• • •	• • •	•••	
Te	notomy and	advar	cemei	nt	•••	• • •	•••	•••	• • •	• • •	• • •	• • •	• • •	• • •	•••	]
Ot	her major o	peration	ons	• • •	•••	•••	•••	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	
Tr	ial with mag Positive	-													• • •	
	Negative	•••	• • • • •	•••	•••	• • •	•••	•••		• • •				• • •	•••	
	Negative	•••	• • • •	•••	•••	•••	•••									
												Tota	T.			76,0

## TABLE XV.—PATHOLOGICAL REPORT.

Tissues hardened, Sections cut and examined microscopically at the Ophthalmic Laboratory during 1922.

Lids:—		
Inflammation		7
Tumours:—		
Benign including cysts		9
Malignant		
Conjunctiva:—		00
Inflammation		29
Degeneration		
Tumours:—		17
Benign including cysts		3
Malignant	Carried farward.	91

## TABLE XV.—PATHOLOGICAL REPORT (contd.)

Brought forward	. 91
Limbus:—	
Tumours:—	6
Benign including cysts	i
Cornea:—	
Wounds	7
Inflammation including ulceration	$\frac{1}{4}$
Sclerotic:—	5
Wounds	1
Iris and Ciliary Body:—	
Inflammation	18
Lens:—	
Cataract	1
	100
Choroid:—	9
Degeneration including ossification	$\begin{array}{c c} 3 \\ 1 \end{array}$
Retina:—	
Inflammation	$\begin{array}{ c c }\hline & 1\\ & 5\\ \hline \end{array}$
	-00
Orbit:—	
Tumours:— Inflammation	3
Benign including cysts	$\begin{vmatrix} 1 \\ 5 \end{vmatrix}$
Malignant	
Lacrimal Gland:—	
Tumours, Benign including cysts	2
Lacrimal Sac:—	
Inflammation	$\tilde{3}2$
Glaucoma:—	- 0
Primary	6
Secondary:— Anterior synechia or adherent leucoma	142
Inflammation (irido-cyclitis, etc.)	6
Sympathetic Ophthalmia	1
Phthisis Bulbi:—	1 7
Inflammation	34
2 OST OPOLARITO III III III III III III III III III	
Unclassified	6
	20

## TABLE XV.—PATHOLOGICAL REPORT (contd.)

Examination of Cells:—	
Eosinophilia:—	
Positive	37 6
OTHER ANIMALS (Horses, Mules, and Donkeys):—	
Diseased	2 58
Тота	518
TABLE XVI.—WASSERMANN TESTS.	
Positive	59
Тот	ral 117

# Table XVII.—Number of Patients treated and Operations performed at the Ophthalmic Hospitals during 1922.

Hospitals.	Number of Patients.	Hospitals.	Number of Operations
	10.400	N. J. DAL al Farrage	7,031
No. 1 Rôd el Farag	12,400	No. 1 Rôd el Farag	6,633
No. 2 S.O.H. Gîza	11,965	Tanta	·
Tanta	8,889	No. 2 S.O.H. Gîza	5,655
Asyût	8,317	No. 3 T.O.H	4,681
Port Said	7,296	Asyût	4,479
Beni Suef	6,602	Benha	4,105
Alexandria	. 6,432	Sohâg	3,651
No. 3 T.O.H	6,290	Asyût P.C.T.O.H	3,597
Faîyûm	6,220	Minya	3,391
Minya	6,089	Beni Suef	3,293
	5,921	Mansûra	3,233
	5,870	Shibîn el Kôm	3,196
	5,815	Daqahliya P.C.T.O.H	3,139
	5,518	Faîyûm	3,000
	5,224	Zagazig	2,755
	5,202	Alexandria	2,633
	4,838	Mahalla el Kubra	2,449
Himming of Azgore	1 291	Santa	2,432
Daquini, a 1.0.2.0.	1 076	Kafr el Zaîyât	2,284
Dunitum		Damanhûr	2,216
ixell of zacijeo	2,994'	Port Said	2,182
Santa	2,961	Tort Said	1

N.B.—Number of working days :-			
No. 3 T.O.H	• • •	$10\frac{3}{4}$	months.
$\Delta \operatorname{cyrht} P C T O H$		107	22
Dagahliya P.C.T.O.H		$9\frac{9}{4}$	"
Other Hospitals	•••	12	29

# Table XVIII.—Average Number of Operations per Month at all Ophthalmic Hospitals during 1922.

Hospitals.	MAJOR.	Hospitals.	MINOR.
No. 1 Rôd el Farag	271	Tanta	390
No. 2 Stationary Gîza	247	No. 1 Rôd el Farag	315
Asyût	211	No. 3 Travelling	257
Beni Suef	192	No. 2 Stationary Gîza	224
Sohâg	185	Daqahlîya Travelling	185
Benha	184	Asyût Travelling	177
No. 3 Travelling	179	Asyût	162
Asyût Travelling	177	Benha	158
Zagazig	167	Minya	122
Faîyûm	167	Mansûra	119
Tanta	163	Sohâg	119
Minya	161	Shibîn el Kôm	116
Mansûra	151	Mahalla el Kubra	105
Shibîn el Kôm	151	Alexandria Branch	104
Daqahliya Travelling	137	Port Said	98
Santa	130	Kafr el Zaîyât	87
Alexandria Branch	116	Faiyûm	83
Damanhûr	105	Beni Suef	82
Kafr el Zaîyât	104	Damanhûr	79
Mahalla el Kubra	99	Santa	73
Port Said	84	Zagazig	63
			00

TABLE XIX.—NEW PATIENTS TREATED ACCORDING TO THE AGE AT WHICH THEY SOUGHT TREATMENT.

			<u>F</u>	Age.				No. of Patients.
Unde	r one	ез	⁄eaı	c	• • •	•••		7,597
From	1	to	5	years		•••		18,763
,,	6 1	to	10	years	• • •	•••		15,388
,,	11 t	to	15	,,	•••			14,094
,,	16 t	to	20	,,				9,751
,,	21 t	to	25			• • •		10,203
, <b>,</b>	26 t	o	30	,,	• • •	•••		11,110
٠,	31 t	to	35	,,	• • •	•••		10,623
,,	36 t	<b>O</b>	40	,,	• • •	•••		9,081
;,	41 t	<b>O</b>	45	,,	• • •	• • •		7,413
"	46 t	O -	50	,,		• • •		5,719
,,	51 t	o	55	,,		•••		3,943
2;	56 t	ю.	60	,,				3,703
,,	61 t	0	65	,,	• • •	• • •		2,912
,,	66 t	0	70	,,		• • •		1,628
Over	70 y	ear	rs	•••	•••	•••		1,822
								1,022
				Тот	'AT.	14		133,750
				2.01	****	•••	4	100,100

T ,

#### TABLE XX.—NEW PATIENTS TREATED PER MONTH.

1																	
																	þ
January	• • •	•••	•••	• • •	•••	•••	•••	•••	• • •	•••	•••	• • •	•••	• • •	• • •	•••	5,465
February	•••	•••	•••	•••	•••	•••	•••	•••	• • •	• • •	•••	•••	•••	• • •	•••	•••	6,653
March	•••	•••	•••	•••	•••	•••	•••	• • •	•••	• • •	•••	• • •	•••	•••	• • •	• • •	7,938
April	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	11,139
May	•••	•••	•••	•••	•••	•••	•••	•••	•••	• • •	•••	•••	•••	• • •	•••	•••	9,488
June	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	• • •	16,365
July	•••	•••	•••	• • •	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	16,008
August	•••	•••	•••	•••	•••	•••	•••		• • •	•••	•••	•••	•••	•••	•••	•••	13,259
September	•••	•••	•••	•••	•••	• • •	•••	•••	•••	•••	•••	•••	•••	•••	• • •	•••	14,137
October		•••	•••	•••	• • •	•••	• • •	•••	•••	•••		•••	•••	•••	•••	•••	14,151
November	•••	•••	•••	•••	•••	•••	• • •	•••	•••	•••	•••	•••	•••	•••	•••	•••	11,553
December		•••	•••	•••	•••	•••	• • •	•••	• • •	• • •	•••	* * *	•••	•••	•••	•••	7,594
													r	T <sub>om</sub> .			129 550
														Гота	L	•••	133,750

#### TABLE XXI.—AVERAGE TEMPERATURE.

The average temperature was arrived at by taking one place in Lower Egypt (Qurashîya), one place in Cairo (Gîza), and one place in Upper Egypt (Asyût) and obtaining an average figure from the mean temperature at each place on each month. This is shown in appended table, the readings being in degrees centigrade.

						^
¥	Month.		Qurashîya.	Gîza.	Asyût.	Average.
						¢
January		••• •••	10.6	11.3	11.8	11,•2
February		• • • • • • • • • • • • • • • • • • • •	12.1	12.9	13.9	13.0
March		• • • • • • • • • • • • • • • • • • • •	14.7	15.5	17.6	15.9
April			18.1	19.4	23.0	20:2
May			21.2	22.2	26.4	23.3
T	•••		25.1	25.4	28.6	26.4
			27.4	27.3	30.9	28.5
July	,,,	•••	26.6	26.8	29.4	27.6
August		••• •••		24.4	27.2	25.3
September		•••	24.2	24 4	212	20 0
October		• • • • • • • • • • • • • • • • • • • •	21.8	22.0	24.2	22.7
November	••• ••• ••• •••		17.5	18.4	19:7	18.5
December			10.8	11.2	12.0	11.3

Table XXII.—Conjunctival Micro-Organisms found during 1922.

Organisms.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	TOTAL.
Gonococcus	156	120	151	502	81.0	1,457	1,602	1,280	1,387	1,632	1,540		11,305
Koch-Weeks	154	139	167	611	592	807	776	450		564		232	
Morax-Axenfeld	49	75	105	118	150	145	136			150		98	
Pneumococcus	9	6	10	19	33				26	42			
Xerosis	11	6	5	14	17	9	30	16	24	17	32	27	208
Staphylococcus	—				1	1	1		1	_	1	_	5
Micrococcus					. —				_	2			2
Streptococcus		1		-	2				2		1		8
Other organisms	14	8	27	23	24	26	30	41	36	37	17	12	295
Total	393	355	465	1,287	1,629	2,472	2,616	1,951	2,079	2,444	2,214	1,056	18,961
Negative	75	76	91	148	199	255	260	233	259	267	341	175	2,379
											-		
Grand Total	466	431	556	1,435	1,828	2,727	2,876	2,184	2,338	2,711	$\begin{bmatrix} 2,555 \end{bmatrix}$	1,231	21,340

Table XXIII.—Blindness among Out-Patients since 1909.

					TOTAL NUMBER OF	ONE E	YE.	Вотн 1	EYES.	ONE EYE A EYES	
	YEA	R.			PATIENTS EXAMINED.	Number.	Per Cent.	Number.	Per Cent.	Number.	Per Cent
1909	•••	•••	•••		22,373	2,116	9•4	1,385	6.1	3,501	15.0
1910	•••	• • •	•••	•••	25,506	2,438	9.5	2,010	7.8	4,448	17.4
1911	•••	•••	•••	•••	31,274	3,196	10.2	2,811	8.9	6,007	191
1912		•••	•••	•••	43,668	4,115	9.4	2,824	6.4	6,939	15.
1913	•••	• • •	•••	•••	62,233	5,360	8.6	3,878	6.2	9,238	14.
1914	• • •	• • •	•••	•••	75,398	6,425	8.5	3,591	4.7	10,016	13.
1915		•••	• • •	• • •	71,930	5,637	7.8	2,992	4.2	8,629	12.
1916	• • •	•••	• • •	•••	94,447	7,042	7.4	3,504	3.7	10,546	11.
1917	• • •	• • •	•••	• • •	100,410	9,385	9.3	4,611	4.6	13,996	13.
1918	•••	•••	•••	•••	90,668	8,969	9.9	4,261	4.7	13,230	14.
1919		• • •	•••	•••	83,577	8,537	10.2	4,278	5.1	12,815	15
1920	• • •	• • •		•••	108,113	9,833	9.1	5,154	4.7	14,987	13
1921	• • •	• • •	•••	• • •	127,223	10,566	8.3	5,053	3.9	15,619	12
1922	•••	•••	• •	•••	147,492	12,524	8.5	4,850	3.3	17,374	11.
	Г	OTA	L	• • •	1,084,312	96,143	8.9	51,202	4.7	147,345	13

TABLE XXIV.—TOTAL PERCENTAGE OF BLINDNESS IN ONE OR BOTH EYES.

						1919	1920	1921	1922
: .		:				Per Cent.	Per Cent.	Per Cent.	Per Cent.
ermanent Hospitals	:								
Tanta						$12 \cdot 05$	7.82	9.78	8.78
A A.		•••		•••	•••	$20 \cdot 7$	19.05	16.5	$14 \cdot 32$
70.75 (A				•••	•••	$18 \cdot 2$	17.70	19.3	18.79
Beni Suef				• • •		$18 \cdot 9$	16.40	$17 \cdot 07$	17.55
Zagazig		• • •	• • •	• • •	•••	19.6*	$17 \cdot 76$	11.1	11.58
Damanhûr				• • •	•••	10.8	$9 \cdot 2$	9.77	9.49
Shibîn el Kôm	•••	• • •	•••	• • •	• • •	8.2	6.3	9.09	9.06
U		• • •	•••	•••	•••	13.9	$\begin{array}{c c} 16 \cdot 3 \\ 19 \cdot 8 \end{array}$	$\begin{array}{ c c }\hline 16.16\\ 19.85\end{array}$	$\begin{array}{c c} & 13 \cdot 74 \\ & 19 \cdot 04 \end{array}$
	•••	• • •	• • •	• • •	•••	20.6	19.36	11.1	13.04
<i>S</i>		• • •	•••	•••	•••	17.7	9.6	$7 \cdot 4$	9.67
		•••	• • •	•••	•••		10.7	9.7	9.67
Aswân (Oph. B			•••	• • •	•••	_		14.6	_
		•••			•••		_	$6 \cdot 13$	3
Mahalla el Kub				•••		12.5	10.4	$9 \cdot 2$	8.65
Kafr el Zaîyât						11.4	10.93	10.88	9.34
Santa						15.6	13.84	$12 \cdot 63$	12.55
ravelling Hospitals	:								
No. 1 Travellin	g :—								
Agwân						$22 \cdot 7$			
Aswân Lafu	•••	• • •	•••	•••			24.16	_	_
Idfu Damietta	•••	•••	• • • •	• • •	• • •		$14 \cdot 3$	_	_
Rôd el Fai		•••	•••	• • •	•••	_	16.86	14.35	12.3
	ry:								
Gîza	•••	•••	•••	•••	•••	* 8.4	14.73	13.09	13.03
Gîza No. III Travel	•••	•••	•••	•••	•••	* 8.4	14.73	13.09	13.03
No. III Travel	 ling :—			•••			14.73 $15.25$	13.09	13.03
No. III Travel Barrage	 ling :—		•••			16.5	$15 \cdot 25$ $11 \cdot 12$		13·03 — —
No. III Travel Barrage Port Said	 ling :—	•••					15.25		
No. III Travel Barrage	 ling :—	•••			•••		$15 \cdot 25$ $11 \cdot 12$		
No. III Travel Barrage Port Said Nag Hamr	ing : nâdi	• • •			•••		$15 \cdot 25$ $11 \cdot 12$		
No. III Travel Barrage Port Said Nag Hamr Aswân	ing :— nâdi	•••		•••	•••		$15 \cdot 25$ $11 \cdot 12$		
No. III Travel Barrage Port Said Nag Hamr Aswân Luxor	ing:— nâdi	•••		•••	•••		$15 \cdot 25$ $11 \cdot 12$		13·03 — — — 16·36 8·9
No. III Travel Barrage Port Said Nag Hamr Aswân	ing:— nâdi	•••		•••	•••		$15 \cdot 25$ $11 \cdot 12$	- 4·1 20·26	
No. III Travel Barrage Port Said Nag Hamr Aswân Luxor Asyût Travellin	ing:— nâdi	•••		•••	•••		$15 \cdot 25$ $11 \cdot 12$		
No. III Travel Barrage Port Said Nag Hamr Aswân Luxor Asyût Travellin	ing :— nâdi	•••		•••	•••		$ \begin{array}{c} 15 \cdot 25 \\ 11 \cdot 12 \\ 9 \cdot 42 \\ \\ \\ 14 \cdot 22 \end{array} $	- 4·1 20·26	16·36 8·9
No. III Travel Barrage Port Said Nag Hamr Aswân Luxor Asyût Travellin	ing:— nâdi				•••		$ \begin{array}{c} 15 \cdot 25 \\ 11 \cdot 12 \\ 9 \cdot 42 \\ \\ \\ 14 \cdot 22 \\ 20 \cdot 0 \end{array} $		
No. III Travel Barrage Port Said Nag Hamr Aswân Luxor Asyût Travellin Manfalût Deirût	ing:— nâdi ng:—					16·5 — — — — — —	$ \begin{array}{c} 15 \cdot 25 \\ 11 \cdot 12 \\ 9 \cdot 42 \\ \\ \\ 14 \cdot 22 \end{array} $	$ \begin{array}{c c}  & - \\  & 4 \cdot 1 \\  & 20 \cdot 26 \\  & - \\  & - \\  & - \\  & 14 \cdot 6 \end{array} $	- 16·36 8·9
No. III Travel Barrage Port Said Nag Hamr Aswân Luxor  Asyût Travellin Manfalût Deirût Mallawi Abnûb Abu Tîg	ing:— nâdi					16·5 ————————————————————————————————————	$ \begin{array}{c} 15 \cdot 25 \\ 11 \cdot 12 \\ 9 \cdot 42 \\ \\ \\ 14 \cdot 22 \\ 20 \cdot 0 \end{array} $		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
No. III Travel Barrage Port Said Nag Hamr Aswân Luxor  Asyût Travellin Manfalût Deirût Mallawi Abnûb	ing:— nâdi					16·5 — — — — — —	$ \begin{array}{c} 15 \cdot 25 \\ 11 \cdot 12 \\ 9 \cdot 42 \\ \\ \\ 14 \cdot 22 \\ 20 \cdot 0 \end{array} $	$ \begin{array}{c c}  & - \\  & 4 \cdot 1 \\  & 20 \cdot 26 \\  & - \\  & - \\  & - \\  & 14 \cdot 6 \end{array} $	- 16·36 8·9
No. III Travel  Barrage Port Said Nag Hamr Aswân Luxor  Asyût Travellin  Manfalût Deirût Mallawi Abnûb Abu Tîg Badâri	ing:— nâdi					16·5 ————————————————————————————————————	$ \begin{array}{c} 15 \cdot 25 \\ 11 \cdot 12 \\ 9 \cdot 42 \\ \\ \\ 14 \cdot 22 \\ 20 \cdot 0 \end{array} $	$ \begin{array}{c c}  & - \\  & 4 \cdot 1 \\  & 20 \cdot 26 \\  & - \\  & - \\  & - \\  & 14 \cdot 6 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
No. III Travel Barrage Port Said Nag Hamr Aswân Luxor  Asyût Travellin Manfalût Deirût Mallawi Abnûb Abu Tîg	ing:— nâdi					16·5 — — — — — — — — — — 17·9 10·5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c}  & - \\  & 4 \cdot 1 \\  & 20 \cdot 26 \\  & - \\  & - \\  & - \\  & 14 \cdot 6 \end{array} $	$ \begin{array}{c} -\\ -\\ 16 \cdot 36\\ 8 \cdot 9 \end{array} $ $ \begin{array}{c} -\\ 9 \cdot 7\\ -\\ 14 \cdot 1\\ 6 \cdot 22 \end{array} $
No. III Travel  Barrage Port Said Nag Hamr Aswân Luxor  Asyût Travellin  Manfalût Deirût Mallawi Abnûb Abu Tîg Badâri	ing:— nâdi ng:— velling:					16·5 — — — — — — — — — — — — — — — — — — —	$ \begin{array}{c} 15 \cdot 25 \\ 11 \cdot 12 \\ 9 \cdot 42 \\ \\ \\ 14 \cdot 22 \\ 20 \cdot 0 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
No. III Travel  Barrage Port Said Nag Hamr Aswân Luxor  Asyût Travellin  Manfalût Deirût Mallawi Abnûb Abu Tîg Badâri  Daqahlîya Travellin	ing:— nâdi ng:— velling:					16·5 — — — — — — — — — — 17·9 10·5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} -\\ -\\ 16 \cdot 36\\ 8 \cdot 9 \end{array} $ $ \begin{array}{c} -\\ 9 \cdot 7\\ -\\ 14 \cdot 1\\ 6 \cdot 22 \end{array} $
No. III Travel  Barrage Port Said Nag Hamr Aswân Luxor  Asyût Travellin  Manfalût Deirût Mallawi Abnûb Abu Tîg Badâri  Daqahlîya Travellin  Mit-Ghamr Matarîya Dikirnis	ing:— nâdi ng:— velling:-					16·5 — — — — — — — — — — 17·9 10·5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
No. III Travel  Barrage Port Said Nag Hamr Aswân Luxor  Asyût Travellin  Manfalût Deirût Mallawi Abnûb Abu Tîg Badâri  Daqahlîya Travellin  Mit-Ghamr Matarîya Dikirnis Fariskûr	ing:— nâdi welling:					16·5 — — — — — — — — — — — — — — — — — — —	15·25 11·12 9·42 ————————————————————————————————————	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} -\\ -\\ 16 \cdot 36\\ 8 \cdot 9 \end{array} $ $ \begin{array}{c} -\\ 9 \cdot 7\\ -\\ 14 \cdot 1\\ 6 \cdot 22 \end{array} $
No. III Travel  Barrage Port Said Nag Hamr Aswân Luxor  Asyût Travellin  Manfalût Deirût Mallawi Abnûb Abu Tîg Badâri  Daqahlîya Travellin  Mit-Ghamr Matarîya Dikirnis	ing:— nâdi velling:— velling:					16·5 — — — — — — — — — — 17·9 10·5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

<sup>\*</sup> Increased owing to E.L.C. patients.

TABLE XXV.—Sources of Provision of Hospitals.

Hospitals.	Date at which opened.	Government Grant.	Public Subscription or Private Benefaction.	Provincial Councils or Municipality.
		L.E.	L.E.	L.E.
No. 1 Travelling*	1904	_	1,000	_
No. 2 Camp†	1905		_	1,500
Tanta	1908	8,463	-	-
Asyût	1911	8,817 and site	5,004	
Mansûra	1912	_	5,000	
Beni Suef	1912		4,000	_
Asyût Travelling	1912	_	_	720
Zagazig	1913	_		4,286
Mahalla el Kubra	1913			2,400
Kafr el Zaîyât	1913	_	_	2,200
Daqahlîya Travelling	1913	_		720
Damanhûr	1914	_		5,000
Shibîn el Kôm	1914		5,422	-
Sohâg	1914	960	4,000	
Minya	1915			5,500
Santa	1915	_	_	2,600
Faîyûm	1916	Site.		4,000
No. 3 Travelling‡	1918		1,000	-
Benha	1920	-	14,000	_
Port Said	1921	1,000	_	1,000
Qena §	_	-	12,400	2,800
Gîza §	_	Site.	6,300	600
Total		19,240	58,126	33,326

<sup>\*</sup> Retained in Cairo for provision of clinical facilities for teaching.

<sup>†</sup> Stationary at Gîza until completion of Gîza Permanent Ophthalmic Hospital.

<sup>‡</sup> For South Egypt, Luxor to Aswân, until Aswân Permanent Hospital is completed. § Under construction.

#### 7.—EXPENDITURE STATISTICS.

Table XXVI.—Actual Expenditure.—(A) Central Administration, 1921-1922.

CHAPTER.	Grant.	Total actual Expenditure.
	L.E.	L.E.
Pensionable staff	7,394	5,546
Hors cadre staff	313	284
Allowances:—		
Ophthalmic allowance	216	135
Compensation allowance	48	48
Transport, transfer, and travelling allowance:—		
Inspection allowance	384	288
Consolidated allowance	58	55
Transfer	40	4
Travelling allowance	300	262
Transport	600	428
Books and periodicals		• 30
Telephone	12	12 *
Telegrams		7
Petty expenses	20	3
Total	9,445	7,102 †

<sup>\*</sup> Excluding trunk line calls. † This figure is very low owing to two posts of divisional inspectors were vacant the whole year of 1921, one of which to cover the extra expenses of a Medical Officer during his educational mission in England.

Table XXVII.—Actual Expenditure.—(B) Government Ophthalmic Hospitals, 1921-1922.

	CHAPTER.							Grant.	Total Actual Expenditure.
						,,,,,,		L.E.	L.E.
Pensionable staff		•••			• • •	• • •		9,374 *	8,205
Hors cadre staff			•••	• • •	• • •	• • •	• • •	7,128	6,728
Ophthalmic allowance				• • •	•••	•••		1,896 †	1,349
Transport, transfer and travelling	ng allowance	e		9	•••	•••	• • •	1,693	1,941
Food				• • •	• • •	• • •	•••	4,954	5,040
Forage	•••		•••	• • •	• • •	• • •	• • •	51	43
Water			•••	•••	• • •	•••	• • •	265	236
Light				•••	• • •	• • •	• • •	180	149
Disposal of sewage	•••	• •••	• • • • • • •	•••	•••	• • •	• • •	100	43
Heating	•••		•••	•••	• • •	• • •	• • •	_ ‡	946
Rent	•••		•••	•••	• • •	• • •	• • •	100	65
Telegrams and telephones			•••	•••	•••	•••	•••	165	120
Stores :-									,
General equipment				•••	• • •	• • •			(3,927)
Surgical equipment	•••				• • •	• • •	-		107
Instruments			• • • • • •		• • •			‡	690
Drugs			• • • • • •						1,491
Dressings			•••	•••			1		371
Transport of stores	•••		•••		• • •		1		( 159
Books and periodicals			•••		• • •	• • •		12	12
Petty expenses (including move			ps)	•••	• • •	•••	•••	598	573
	4					•			32,195
	Tor	ral	•••	• • •	• • •	• • •	• • •		02,100

<sup>\*</sup> To this L.E. 201 is granted by the Government for the salary of a medical officer of Daqahlîya Provincial Council Travelling Ophthalmic Hospital which is recovered from the said Council.
† To this L.E. 72 is granted by the Government for the Ophthalmic allowance of the M.O. of Daqahlîya Provincial Council Travelling Ophthalmic Hospital which is recovered from the said Council.

† No special grant for the ophthalmic hospitals. The grant is for the various units of the whole Department.

† No special grant for the ophthalmic hospitals. The grant is for the Public Works Ministry and no return is made.

Table XXVIII.—Actual Expenditure.—(B) Government Ophthalmic Hospitals (per Unit), 1921-1922.

Total.	L.E.	8,205*	6,728*	1,349	1,941	5,040	43	236	149	43	946	65	120		3,927	107	069	1,491	371	159	12	573		32,195
Damietta.	L.E.	S		17	17	1		1	1		1	I	1		1	1	1	1	1	1	1	i		117
'zəng	L.E.	89	1	18	39	1		1	-	1		1				1	1	1	1	1	1	1		146
Cairo Schools.	L.E.	134	49	36	11	1		1	1	1	1	1	1		1	1	1	1		1	1			230
.bis2-tro4	L.B.	277	265		100	I		-	1	1	4	1	ा		496	9	146	86	1	12	1	24		1,430
Alexandria Oph. Branch Loodos bas	L.E.	346	145	72	23	1	1	-	1	1	I	1	1		1		1	1	1	I	1	1		586
Benha.	L.E.	517	421	78	89	409	1	33		1	101	1	15		131	45	44	165	46	12:		15		2,100
Falyfim.	L.E.	337	388	42	15	240	1	1	1	29	901	1	6		228	्रा	38	83	22	12	1	17		1,568
Minya.	L.E.	536	431	69	63	365	1	1	1	<del></del> 4	2	1	6		162	1	37	75	37	12	H	17		1,822
Sohâg.	L.E.	419	475	58	81	333	1	1		1	98	1	H		180	1	53	84	29	12		16		1,804
Shibîn el Kôm.	L.E.	490	451	89	94	469		1	1		က		10		366	2	47	88	36	12	H	18		2;060
Damanhûr.	L.E.	422	379	34	51	337	1	32	1	1	114		6		192	0.1	29	4.9	10	12	Н	14		1,687
.gizezeZ	L.E.	475	416	7.2	26	349	İ	16		12	100	1	12		196	1	59	26	41	12	H	22		1,977
Beni Suef.	L.E.	487	433.	09	83	397	1	27	41		98	1	10		151	15	24	115	29	12	H	Ħ		1,994
Mansûra.	L.E.	578	425	72	6	497	1	12	33		55		12		187	11	32	112	ा	12	H	29		2,079
.tŷvs <b>A</b>	L.E.	744	514	138	259	484	က	50	40	1	901	1	15		286	1	47	118	31	12	H	21		2,869
Tanta	L.E.	845	460	128	86	347	1	41	35	Н	100	1	10		214	18	31	134	59	12	H	17	Ì	2,551
.H.O.T ,& .o.N	L.E	334	406	109	412	279	1	15	1	1	27	10	ಣ		192	1	22	108	13	12	77	295		2,238
.H.O.2 ,2 .o.N	L.E.	527	635	131	179	283	34	1		1	H	1	က		712	H	58	75	4	1	H	40		2,684
.H.O.T ,I .o.M	L.E.	565	435	147	242	251	9	10	1	1	38	55	l	•	334	1	47	90	12	က	П	17		2,253
CHAPTER.		onable staff		almic allowance	port, transfer and travelling wance					al of sewage		: : : : : : : : : : : : : : : : : : : :	ams and telephones	1.	eneral Equipment	irgical Equipment	struments	rugs	:	ansport of stores	and periodicals	expenses		TOTAL
CHAPTER.		Pensionable staff		Ophthalmic allowance	Transport, transfer and allowance	Food	Forage	Water	:	Disposal of sewage	Heating	:	Telegrams and telephones	Stores:	General Equipment	Surgical Equipment	Instruments	Drugs	:	of stores	Books and periodicals			To

\* Including 20 per cent permanent increase; but excluding war bonuses which were charged against a special credit of M. of Finance. † Excluding upkeep of buildings, for which no account is kept by P.H.D. but by P.W.M.

Table XXIX.—Actual Expenditure.—(C) Provincial Council Ophthalmic Hospitals, 1921-1922.

			GHARBÎYA.			ASI	Asyûr.	Дадангвуа.	LÎXA.
		-	·Bx	Expenditure Per Unit.	t.	,			
CHAPTER.	Grant.	Expenditure.	Mahalla el Kubra.	Kafr el Zaîyât.	Santa.	Grant.	Expenditure.	. Grant.	Expenditure.
	L.E.	L.E.	L.E.	L.E.	L.E.	L.E.	L.B.	L.B.	L.E.
Employees	810 474 24	760 459 24	262 120	264	234 205 24	223 104	87	353	329 244 —
Transport and travelling allowance:—									
Travelling allowance	18	11 35	8	9	11 21	.aliß	125	1000	_ 73
ndry	) 130	10	c1	 ओ	96	ьо де	41	) 160	<del>11</del> 88
Water	34	20	 	, c		, isessovil	л ч 4	20	14
General furniture:—						) səs			
Equipment	\ 00g \ \ \	296	85 30	88	123	guədəp	*87.20	} 200 {	186
Drugs	$\left.\begin{array}{ccc} & & 240 \end{array}\right\}$	273 5	67	71	135	101 02	48	} 150 {	83
Stationery and periodicals	  -   33	. <b> </b> 13	ଠା ଠା	   %	1 8	L.H. 2.		& 1 E	15
TOTAL	2,278	2,078	588	588	902	547	*375	1,310	1,113
ovo H F L. II.				- c					

\* This besides L.E. 299 cost of new tents purchased by permission of the Provincial Council to replace worn out ones, paid for from economies. N.B.—Up-Keep: Gharbíya Provincial Council Budget L.E. 50 for each hospital.

Table XXX.—Comparison of the Cost of Maintenance of a Permanent Ophthalmic Hospital in 1914 and 1922.

			Number.	1914.	TOTAL.	Number	1922.	TOTAL.
				L.E.	L.E.		L.E.	L.E.
Art. 1.—Salaries, Wages, and Allow	ances	:		-				
A.—Pensionable Staff:—			-					
Medical Officer	•••	•••	$\begin{vmatrix} 2 \\ 1 \end{vmatrix}$	336 60	396	2	420 90	510
C.—Hors Cadre Staff:—								
Moawin Chief attendant Attendants (male) Attendants (female) Cook Sai Gardener Boab Sundry subordinate staff			1 1 2 2 1 1 1 - 1 3 12	48 36 42 36 24 18 — 18 54	276	1 2 5 2 1 1 1 1 - - 13	60 84 150 42 42 30 30	438
20 per cent War Gratuity	•••	•••		_	_		_	189
E.—Allowances	•••	•••		72	72			
ART. 2.—Transport, Transfer, and Tallowances:—  Transport		 		} 50	50 139		5 50 50	105 530
Water	•••	•••		30 40 20 12	102		60 50 30 —	140 1
ART. 7.—Telegrams and Telephones:	_							
Telegrams             Telephones	•••	•••		} . 9	9	{	2 10	12
Art. 8.—Petty Expenses		•••			300			30 500

Table XXXI.—Cost of Uniform Diets for all In-patients at Ophthalmic Hospitals during 1922, excluding Cost of Rations of Employees.

Hospitals. of	Number f Diets issued,	Total Cost. *	Cost per Day per Head.
		L.E.	Mills.
Benha	4,224	276 .	65.4
Damanhûr	$\frac{3,606}{6,992}$	$\begin{array}{c} 221 \\ 349 \end{array}$	61·4 55·4
Shibîn el Kôm	$\begin{bmatrix} 6,293 \\ 6,943 \end{bmatrix}$	371	53.4
Beni Suef	5,927	295	49.7
No. 3 Camp, Aswân and Luxor	$\begin{array}{c c} 3,680 \\ 5,209 \end{array}$	$\begin{array}{c} 176 \\ 248 \end{array}$	47·9 47·7
Zagazig	5,712	269	47.1
Asyût	7,744	355	45.8
Faîyûm	$\begin{bmatrix} 3,361 \\ 5,500 \end{bmatrix}$	$\begin{array}{c} 153 \\ 241 \end{array}$	45 • 6 43 • 8
Tanta Daqahliya Travelling†: Mît Ghamr, Fâriskûr, and	3,300		
Simbellawein,	2,198	88	40.0
No. 1 Camp, Rôd el Farag	$\begin{array}{c c} 4,215 \\ 7,880 \end{array}$	$\begin{array}{c} 161 \\ 263 \end{array}$	38 <b>·</b> 3 33 <b>·</b> 4
Sohâg	3,047	96	31.2
No. 2 Stationary, Gîza	6,482	189	29.1
Total	82,021	3,751	45.7

<sup>\*</sup> Fuel excluded.

Scale of Full Diet as given to all In-patients at Ophthalmic Hospitals.

Bread          Beef          Vegetables          Lentils          Rice          Milk          Artificial butter	rammes.
Beef	
Vegetables	600
Lentils	150
Lentils	150
Milk	75
	75
Artificial butter	200
	25
Sugar	30
Salt	15

### TABLE XXXII.—Number of Beds at the Ophthalmic Hospitals.

				First.	Third.
No. 1 Travelling	•••			•	10
No. 2 Stationary	•••	•••	•••		20
No. 3 Travelling	•••	•••			10
Tanta	•••	•••		<del></del> .	20
Asyût				1	27
Mansûra		•••	••• •••	_	20
Beni Suef		•••			16 16
Zagazig		•••			16
Damanhûr		•••			16
Shibîn el Kôm	••• •••	•••	••• •••		16
Sohâg	••• •••	•••	••• •••		16
Minya	•••	•••	••• •••		$\tilde{1}\tilde{2}$
Faîyûm	•••	•••	••• ••• •••		$\overline{16}$
Benha	••• •••	•••	•••		30
Alexandria	••• •••	•••	••• ••• •••	_	$\overline{6}$
Port Said	•••	•••			20
Qena	•••	•••			5
Damietta	••• •••			_	8
Daqahlîya	•••	• • • • • •			10
Santa	••• ••• , •••				

<sup>†</sup> Rations of these hospitals are not supplied by contractors but bought locally.

# 8.—STATISTICS OF SCHOOL CLINICS.

## (a) Statistics of Ophthalmic Treatment in Schools, 1921-1922.

Ophthalmic treatment at the Government Primary Schools of Tanta, Asyût, Mansûra, Beni Suef, Zagazig, Damanhûr, Shibîn el Kôm, Sohâg, Minya, Faîyûm, Gîza, Benha, Alexandria, Husseinîya and Muhammad Aly at Cairo, during 1921–1922.

TABLE I.—PUPILS INSPECTED.

Schools.		ING OF THE YEA	R		O OF THE YEAR.	1 11,
geneous.	Pupils inspected.	Pupils with trachoma.	Per cent.	Pupils inspected.	Pupils with trachoma.	Per cent.
Tanta	610	.518	84.9	589	526	89.3
Asyût	418	404	96.6	409	391	. 95.6
Mansûra	486	427	87 · 8	471	410	87.0
Beni Suef	376	356	94.7	369	352	$95 \cdot 4$
Zagazig	366	309	84.4	344	292	84.9
Damanhûr	240	209	87.0	223	198	88.7
Shibîn el Kôm	157	154	98.0	148	139	93.9
Sohâg	208	206	99.0	234	231	98.7
Minya	297	282	94.9	302	290	96.0
Faîyûm	227	225	99:0	226	224	99.1
Gîza	246	239	97 · 2	229	222	96.9
Benha	373	350	93.8	358	334	93.3
Alexandria	370	212	57.3	366	222	60.6
Husseinîya	681	591	86.8	655	569	86.8
Muhammad Aly	597	554	92.8	594	559	94.1
					· · · · · · · · · · · · · · · · · · ·	
Total	5,652	5,036	89.1	5,517	4,959	89.8

Table IIa.—Condition of Conjunctiva.

	1		BEGINNING OF THE YEAR.								En	D OF	гне Үеан	₹.	
Schools.		hy.	TRACHOMA.						by.	nc-		Tra	ACHOMA.		j
611.		Healthy.	Conjunctivitis.	I.	II.	III.	IV.	Total.	Healthy.	Conjunc- tivitis.	I.	II.	III.	IV.	Total.
Tanta		76	16	34	28	211	245	610	63		4	2	234	286	589
Per cent		$12 \cdot 4$	$2 \cdot 6$		$4 \cdot 6$	$34 \cdot 6$	40.1		10.7		0.7	0.3	$39 \cdot 7$	48.5	909
Asyût		14		81	75	122	126	418	18		45	18	144	184	409
Per cent		3.5		19.3		$29 \cdot 1$	30 · 1		4.4		11.0	4.4	$35 \cdot 2$	44.9	100
Mansûra		59	_	61	9	115	242	486	61		53	2	62	293	471
Per cent		$12 \cdot 1$		$12 \cdot 5$	1.8	$23 \cdot 7$	49.8		12.9		11.2	0.4	$13 \cdot 2$	$62 \cdot 2$	
Beni Suef		20		26	96	102	132	376	17		1		28	323	369
Per cent		5.3		6.9	$25 \cdot 5$	$27 \cdot 1$	$35 \cdot 1$		$4 \cdot 6$	_	0.3	_	$7 \cdot 6$	$87 \cdot 5$	
Zagazig		57	_	53	32	120	104	366	50	2	7	2	136	147	344
Per cent		$15 \cdot 5$	_	14.5	8.7	$32 \cdot 8$	$28 \cdot 4$		14.5	0.6	2.0	0.6	39.5	$42 \cdot 7$	
Damanhûr		31	_	22	23	77	87	240		_	11	4	96	87	223
Per cent		$12 \cdot 9$	_	9.1	9.6	$32 \cdot 1$	$36 \cdot 2$		$11 \cdot 2$	_	4.9	1.8	43.0	39.0	
Shibin el Kôm	l	3		5	23	78	48	157	9		5	2	83	49	148
Per cent	• • •	$ 1\cdot 9 $	_	3.2	$14 \cdot 6$	$ 49\cdot7 $	30.6		$ 6\cdot1 $		3.4	1.3	$56 \cdot 0$	$33 \cdot 1$	
Sohâg		2		33	28	91	54	208	11		25	21	121	64	234
Per cent		0.9	—	$15 \cdot 9$	13.5	$43 \cdot 7$	$25 \cdot 9$		1.3		10.7	8.9	$51 \cdot 7$	$27 \cdot 3$	
Minya		15	_	20	27	151	84	297	12		28	17	126	119	302
Per cent		$ 5 \cdot 0 $	_	$6 \cdot 7$	9.1	50.8	$28 \cdot 3$		4.0		$9 \cdot 2$	$5 \cdot 6$	$41 \cdot 7$	$39 \cdot 4$	
Faîyûm		2	_	18	22	145	40	227	2		9	8	159	48	226
Per cent	• • •	0.9		7.9	9.7	63.8	17.6		0.9		$4 \cdot 0$	3.5	70.3	$21 \cdot 2$	
Gîza	• • •	7	_	22	23	96	98	246	7		4	2	127	89	229
Per cent	•••	2.8		8.9	9.3	39.0	39.8	070	3.0		1.7	0.9	55.4	38.9	050
Benha	• • •	23	_	58	12	224	56	373	24		27	6	203	98	358
Per cent	• • •			15.5			$15 \cdot 0$	970	6.7		7.5			$27 \cdot 3$	9.00
Alexandria	• • •		7	86	21	53	52	370	1		79	11	48	84	366
Per cent		40.8	1.9	$23 \cdot 2$		$14 \cdot 3$	14.0	601	38.8	0.0	21.6		13.1	$\begin{array}{c} 22 \cdot 9 \\ 175 \end{array}$	CEE
Husseinîya	• • •	90		193		170	152	681	$\begin{array}{ c c } 86 \\ 13 \cdot 1 \end{array}$		151	$\begin{vmatrix} 15 \\ 2 \cdot 3 \end{vmatrix}$	$\begin{array}{c c} 228 \\ 34 \cdot 8 \end{array}$	$\begin{array}{c c} 175 \\ 26 \cdot 7 \end{array}$	655
Per cent	1			28.3		$24 \cdot 9$	$22 \cdot 3$	597	1		$\begin{vmatrix} 23 \cdot 0 \\ 17 \end{vmatrix}$	4	203	335	594
Muhammad A	•	43	_	106		$\begin{array}{c c} 191 \\ 31 \cdot 9 \end{array}$	$\begin{array}{c} 201 \\ 33 \cdot 7 \end{array}$	597	5.9		$\frac{1}{2 \cdot 8}$		$34 \cdot 2$	$56 \cdot 3$	994
Per cent	• • •	$7 \cdot 2$	_	$17 \cdot 8$	9.4	31.9	25.1		9.9		2.0	0.1	94.7	90.9	
TOTAL		593	23	818	551	1946	1721	5,652	554	4	466	114	1998	2381	5,517
Per cent		10.5		14.5			30.4	0,002		$0.\overline{1}$			36.2	$43 \cdot 2$	,,,,,
101 00110	•••	10.0													

TABLE IIb.—Effect of Treatment on Serious Stages of Trachoma.

						Begini	NING OF THE YE	END OF THE YEAR.		
	YEAR.				Pupils with any stage of Trachoma.	Pupils with se		Pupils with so of Trachoma		
						No.	No.	Per Cent.	No.	Per Cent.
						101	220	00.0		
1907–1908					• • •	464	289	$62 \cdot 3$		
1914–1915						1,553	342	$22 \cdot 0$	61	4.0
1916-1917						1,528	327	$21 \cdot 4$	48	3.0
1917–1918		•••	•••			1,699	282	16.6	71	$4 \cdot 2$
1919–1920	• • •	•••	•••.	•••	• • • .	2,454	410	$16 \cdot 7$	201	8.2
	• • •	•••	• • •	• • •	• • •	, ,	643	$19 \cdot 1$	290	8.6
1920–1921	• • •	• • •	• • •	• • •	• • •	3,363	·		580	$11.\overline{5}$
1921–1922	• • •				• • •	5,036	1,369	$27 \cdot 2$	900	11.9

Table IIc.—Stages of Trachoma at Beginning and End of School Year.

						BEGINNING	OF THE YEAR.	End of	F THE YEAR.
STA	GES OF	TRAC	нома	h.•		No.	Per Cent.	No.	Per Cent.
Trachoma	I III IV	•••	•••	•••	•••	818 551 1,946 1,721	$16 \cdot 2$ $10 \cdot 9$ $38 \cdot 6$ $34 \cdot 2$	466 114 1,998 2,381	9.4 $2.3$ $40.3$ $48.0$

Table IIIa.—Trachoma and its Relation to School Years (Beginning of the Year.)

		IV.	51	31	37	27	28	21	9	ದ	12	$\infty$	12	14	12	38	37	339
	ma.		13	18	20	16	17	12	$\infty$		25	25	10	47	9	93	33	7.67
YEAR.	Trachoma.	H.	9	<u>τ</u> ο	—	<u>o</u>	10	1		-	CJ	က	C.I	-		9	7	48
4тн У		i	1	1		ତୀ	<b>-</b>	C)		က	4	ତୀ		က	6	32	12	22
	itoni is.	olino Jiv	6.1		l										C]	1		4
		Heal	10		13	ಣ	10	<u>-</u>		63	್ತಾ	-	62	<b>—</b>	20	34	12	120
		IV.	22	32	62	45	39	21	20	20	33	10	28	15	20	47	64	548
	oma.	III.	46	33	24	28	30	12	21	27	56	33	16	69	14	47	58	484
YEAR.	Trachoma.	П	က	13		15	62	-	H	4	4	62	<del>-</del>	23	4	15	$\infty$	75
3RD Y		I.	ಣ	14	7	4	70	67	<del></del>	က	4	62	62	ಣ	19	33	34	136
	incti- is.	ujnoU div	ಣ	1							I		1	1	က			9
	·Лу.	Heal.	19	70	11	$\infty$	6	9	1		4	_	4	12	37	25	11	152
		IV.	89	42	84	38	20	35	12	17	21	11	35	19	<u> </u>	40	09	511
	oma.	III.	84	46	38	32	39	33	26	27	54	46	34	69	17	45	63	653
YEAR.	Trachoma.	II.	11	24	4	31	4	10	2	<u></u>	<b>C</b> 1	11	<u></u>	-	1	22	16	168
2ND		I.	$\infty$	53	28	6	10	9	23	<u></u>	7	23	$\infty$	16	19	61	29	243
	-iton	iujnoO itiv	9				-	1	-	1	1	1	[	1	1	1		9
	·Au	Healt	20	70	21	70	19	. 1-	1	1	က		Н	ည	45	23	14	168
		IV.	51	21	42	22	17	10	10	12	18	11	23	$\infty$	11	27	40	323
	oma.	III.	68	25	33	26	34	20	23	26	46	41	36	39	16	45	37	515
YEAR.	Trachoma.	i	$\infty$	33	4	41	21	12	15	14	19	9	11	<sub>∞</sub>	10	33	25	260
lsr Y		i	23	31	26		37	12	<b>C</b> 3	18	70	12	12	36	39	29	31	362
	- itor	iujno D eidiv	70	1	1	1	1				1	1		I	2		1	-
	·Au	Healtl	27	භ	14	4	19		ಣ		က	H		50	49	∞	9	153
			:	:	:	:	:	:	:	:	:	:	;	:	:	;	:	:
			:	:	;	:		:	i	:	•	•	•	:	:		:	:
	ģ						:		:		:		:	:	:	:		
	Schools.			:	•	:		:	u	:	:		:	:	:	:	Aly	Total
	<i>V</i> 2	2		:	:	٠	:	ar	Kôr	:	:	:	:	:	ia	е <i>⁄</i>	nad 4	
			Tanta		, Mansûra	Beni Suef	Zagazig	Damanhûr	Shibin el Kôm	Sohâg	Minya	Faîyûm	Gîza	Benha	Alexandria	Husseinîya	Muhammad Aly	

Table IIIb.—Comparison of Serious Stages of Trachoma (Beginning of the Year).

	Total Cases of Trachoma.	rachoma.	Serious Stages of Trachoma I. and II.	achoma I. and II.	Per Cent.	Jent.
CLASS.	1920–1921.	1921–1922.	1920–1921.	1921–1922.	1920–1921.	1921–1922.
First Year	1,098	1,460	996	622	33.	42.6
Second Year	963	1,575	152	411	1.01	26.1
Third Year	719	1,243	79	211	10.9	16.9
Fourth Year	583	758	46	125	7.8	16.5

Table IV.—Vision of all Pupils without Spectacles.

Per Gent.		36.6			27.3	36.0	
GRAND TOTAL.		2,068			1,545	2,039	5,652
.JATOT	815	1,253		1,125	420	2,039	5652
bemmeduM .vlA	122	153		150	10	162	597
Husseinîya.	84	212		145	$\infty$	232	681
.sinbnaxəlA	99	133		53	C3	114	370
Benha.	46	64		65	29	134	373
.asîħ)	29	53		52	6	103	246
Faiyûm.	ಣ	24		37	15	148	227
.syniM	81	4.8		63	55	20	297
Sobâg	21	37		10	52	47	208
Shibin el Kôm.	22	24		30	37	44	157
Tandnamed	63	40		44	4	88	240
.gizegeZ	57	800		1.1	66	4.0 4.	366
Beni Suef.	18	69		70	4	215	376
.sıûsnsM	25	86		87	4	248	486
.tûysA	62	100		94	43	119	418
.etneT	87	122		110	11	280	610
VISION.	Good Vision:—  (a) Normal vision in each eye $6/6$ and $6/6$	6) Vision 6/6 and 6/9 or 6/9 and 6/9	Fair Vision:—	(a) Vision 6/6 and 6/12 or 6/9 and 6/12 or 6/12 and 6/12	(b) Vision 6/6 and 6/18	$Bad\ Vision:$ — Fails to attain any of the above standards	Total

TABLE V.—SPECTACLES ORDERED.

.1ATOT	185	29	69	321	75	215	31
bsmmsduM VlA		12		12		12	.
Husseiniya.	6	13	15	7.60	17	20	
Alexandria.	20	1	9	26	9	16	4
Вепра.	6	10	1-	56	9	15	)C
ßzîD	හෙ	ಣ	4	10	<u> </u>	9	
Faiyûm.	13	4	ಣ	20	60	14	ಣ
.e.VniM	12	1		12		12	
.BûdoB	12		62	14	2	6	ಣ
Shibîn el Kôm.	<u> </u>	7		i i		15	
Damanhûr.	. 11	70	ପ	18	4	14	
.gizagaZ	16	I	က	19	70	12	<b>C</b> 1
Beni Suef.		टा		13		12	
.sıûznsM	29	9	.13	48	13	32	ಣ
Asyût.	14	70		19		11	7
ъзпеТ.	18		14	32	14	15	ေ
	Number of pupils now attending obtained spectacles in previous years	Number of pupils now attending obtained spectacles in this year	Number of pupils now attending ordered spectacles but not yet obtained	TOTAL	Spectacles on order or under repair	Number of pupils wearing spectacles on date of general inspection	Net number not wearing spectacles which were previously ordered

TABLE VI.—VISION OF PUPILS ORDERED SPECTACLES.

 $\mathbf{G}_{\mathbf{RAND}}$ 

	Total.	GRAND TOTAL.	Per Cent.
(a) Before ordering.			
Good Vision:	1		
(a) Nomal vision in each eye 6/6 and 6/6 (b) Vision 6/6 and 6/9 or 6/9 and 6/9	1	1	0.3
Fair Vision:—  (a) Vision 6/6 and 6/12 6/0 and 6/12 6/12 and 6/12	9		
(a) Vision 6/6 and 6/12, 6/9 and 6/12, 6/12 and 6/12 (b) Vision 6/6 and 6/18	3	12	3.7
Bad Vision:—  Fails to attain any of the above standards	308	308	95.9
Total	321	321	
(b) After ordering.			
Good Vision:—			
(a) Attains 6/6 and 6/6 with aid of spectacles not greater in strength than +—6D	18		
(b) Attains 6/6 and 6/9 or 6/9 and 6/9 with aid of spectacles not greater in strength than +— 6D	41	59	18.4
Fair Vision:—			
(a) Attains 6/6 and 6/12 or 6/9 and 6/12 or 6/12 and 6/12 with aid of spectacles not greater in strength than+—6D	63		
(b) Attains 6/6 and 6/18 with aid of spectacles not greater in strength than +— 6D	15	78	24.3
Bad Vision:—			
(a) Fails to attain any of the above standards with aid of spectacles not greater in strength than +-6D	153		
(b) Attains any of the above standards with aid of spectacles greater in strength than +6D	31	184	57.3
Total	321	321	

TABLE VII.—CONDITION OF CORNEA BEFORE TREATMENT.

S	Schools.			Both Corneæ clear.	One cornea clear the other showing opacity.	Opacity of both corneæ.
Tanta				540 378 412 328 323 218 138 186 266 175 208 310 365	50 33 49 31 28 20 13 19 26 34 29 36 5	20 7 25 17 15 2 6 3 5 18 9 27
Husseinîya Muhammad Aly			•••	650 522	19 56	12 19
	Per cent	TOTAL	•••	5,019	7.9	185 3·3

# (b) Statistics of Ophthalmic Treatment in Schools, 1922-1923.

Ophthalmic treatment at the Government Primary Schools of Tanta, Asyût, Mansûra, Beni Suef, Zagazig, Damanhûr, Shibîn el Kôm, Sohâg, Minya, Faîyûm, Gîza, Benha, Moharram Bey and Ras El-Tin at Alexandria, Husseinîya, and Muhammad Aly at Cairo, during 1922–1923.

TABLE I.—PUPILS INSPECTED.

							E I.—PUPI					
							Beginn	ning of the	Year.	End	O.OF THE Y	EAR.
	Sch	ools.					Pupils inspected.	Pupils with Trachoma.	Per Cent.	Pupils inspected.	Pupils with Trachoma.	Per Cent.
Tanta	•••	•••	•••	• • •	•••	•••	579	531	91.7	629	575	91 • 4
Asyût		•••	• • •	•••	•••		515	500	97 · 1	487	472	96.9
Mansûra	•••	• • •	• • •	• • •	•••	•••	483	412	85.3	485	416	85.7
Beni Suef	•••	•••	• • •	•••	•••	•••	373	349	93.6	347	327	94.2
Zagazig	•••	•••	• • •	•••	• • •	•••	380	327	86.0	379	330	87.0
Damanhûr	•••	• • •	• • •	•••		•••	276	259	93.8	280	263	93.9
Shibin el Kôm	• • •	• • •	•••	• • •	•••	•••	170	165	97.0	162	158	97.5
Sohâg	•••	•••	•••	•••	•••	•••	248	247	99.6	234	231	98.7
Minya	•••	•••	• • •	• • •	•••	• • •	324	311	96.0	307	294	95.7
Faîyûm	•••		• • •	• • •	• • •	* * *	226	222	98.2	224	220	98.2
Gîza	• • •	• • •	•••	•••	•••	•••	304	286	94.1	287	271	94.4
Benha	• • •	• • •	•••	• • •	•••	•••	388	372	95.9	383	367	95.8
Muharram Bey	• • •	•••	•••	•••	•••	•••	382	290	75.9	363	273	75.2
Husseinîya	•••	• • •	,	• • •		•••	728	652	89.6	713	626	87.7
Muhammad Aly	• • •	•••	•••	•••	• • •	•••	655	631	96.3	657	620	94.3
Râs el Tîn		•••		•••		•••	785	586	$74 \cdot 6$	762	572	75.0
		1	Тота	L	•••	• • •	6,816	6,140	90.08	6,699	6,015	89.78

TABLE IIa.—CONDITION OF CONJUNCTIVA.

				BEGIN	NING O	F THE Y	EAR.				Eni	O OF T	HE YEAR	Į.	
Schools,		1y.	nc- s.		Tra	CHOMA.		ij	hy.	unc-		TRA	снома.		i
		Healthy.	Conjunctivitis.	I.	II.	III	IV.	Total.	Healthy.	Conjunctivitis.	I.	II.	TH.	IV.	Total.
															•
Tanta		46	2	35	29	270	197	579	54		31	3	254	287	629
Per cent		7.9	•3	6.0	$5 \cdot 0$	$46 \cdot 6$	34.0		8.6	}	4.9	•4	40 · 4	$45 \cdot 6$	
Asyût		15		99	95	159	147	515	15	_	73	33	218	143	487
Per cent	• • •	$2 \cdot 9$		19.2	18.4	30 · 9	28.5		3.1		14.9	$6 \cdot 7$	$44 \cdot 3$	30.4	
Mansûra		71		83	11	79	239	483	69		83	1	59	273	485
Per cent	•••	$14 \cdot 7$		$ 17 \cdot 2 $	$2 \cdot 3$	16.3	49.5		14.2	_	17.1	•2	12.2	56.3	
Beni Suef	•••	24	_	26	49	81	193	373	20		_	_	35	292	347
Per cent	•••	6.4		6.9	13.1	$21 \cdot 7$	$51 \cdot 7$		$5 \cdot 7$				10.1	84 · 1	
Zagazig	•••	53		36	37	140	114	380	49		7	3	172	148	379
Per cent	•••	13.9		9.5	9.7	36.8	30.0		12.9		1.8	.8	$45 \cdot 4$	39.0	
Damanhûr	•••	17	_	54	29	125	51	276	17		22	3	157	81	280
Per cent	•••	6.1		19.6	$10 \cdot 5$	$45 \cdot 3$	18.5		6.1		7.8	1.1	56 · 1	28.9	
Shibîn el Kôn	n	5	_	9	15	98	43	170	4	_	1	1	92	64	162
Per cent	•••	2.9		5.3	8.8	$57 \cdot 6$	$25 \cdot 3$		2.5		•6	•6	$56 \cdot 7$	39.5	
Sohâg	•••	1	_	34	41	111	61	248	3		32	29	115	55	234
Per cent		•4		13.7	$16 \cdot 5$	$44 \cdot 7$	$24 \cdot 6$		1.6		13.7	12.3	49.1	$23 \cdot 5$	
Minya	•••	13	_	18	23	150	120	324	13	_	14	14	134	132	307
Per cent	•••	4.0		5.5	$7 \cdot 1$	46.3	37.0		$4 \cdot 2$	_	4.6	$4 \cdot 6$	43.6	42.9	
Faîyûm	•••	4	-	11	29	149	33	226	4		8	19	159	34	224
Per cent	•••	1.8		4.8	12.8	65.9	$14 \cdot 6$		1.8	_	3.6	8.5	70.9	15.1	
Gîza	•••	18		13	16	130	127	304	16		3	13	130	125	287
Per cent	•••	5.9	)	4.3	5.2	$42 \cdot 7$	41.8		5.6	_	1.0	4.5	45.3	$43 \cdot 5$	
Benha	• • •	16	_	71	38	183	80	388	16		22	6	160	179	383
Per cent	•••	4.1		18.3	9.8	47.2	20.6		$4 \cdot 2$	_	5.7	1.5	41.8	$46 \cdot 7$	
Muharram Be	У	92	-	142	21	57	70	382	90	_	125	9	71	68	363
Per cent	• • •	$24 \cdot 1$	-	$37 \cdot 2$	5.5	14.9	18.3		24.8	-	$34 \cdot 4$	2.5	19.6	18.6	
Husseinîya	• • •	76	_	229	77	166	180	728	87	_	99	10	241	276	713
Per cent	•••	10.4	E	31.4	10.6	22.8	$24 \cdot 7$		$12 \cdot 2$		13.8	1 · 4	33.8	38.7	
Muhammad A	lly	24	_	214	58	177	182	655	37	_	70	4	233	313	657
Per cent	• • •	. 3.7	7	32.7	8.8	27.0	27.8		5.6		10.6	6.6	35.5	47.6	
Râs el Tîn	•••	. 199	_	267	73	174	72	785	190	-	148	6	278	140	762
Per cent	• • •	25.3	3	$34 \cdot 0$	$9 \cdot 3$	22.2	$9 \cdot 2$		24.9	<u> </u>	19.4	8	$36 \cdot 5$	18.3	
								207.0	601		790	154	2508	2615	6699
Тота	L	. 674	2	1341	641	2249	1909	6816			738	154			0000
Per cent	• •	. 9.9	0:	$3   19 \cdot 7$	9.4	32.9	28.0		$10 \cdot 2$	_	11.0	$2 \cdot 3$	$37 \cdot 4$	39.0	
		1													

Table IIb.—Condition of Trachoma in Government Schools (in Groups).

Numbers.

		Ткасн	OMA,			
• METHOD OF TREATMENT.	I.	II.	III.	IV.		
Regular treatment as carried out at O.Hs. (Tanta, Asyût,	Preliminary	•••	377	266	995	950
Mansûra, Beni Suef, Damanhûr, Shibîn el Kôm and Benha)	Final	•••	232	47	975	1,324
Treatment by painting on Saturdays, and Mondays;	Preliminary	•••	54	60	290	234
and by drops on Sundays, Tuesdays and Wednesdays (Zagazig and Minya)	Final	•••	21	17	306	280
Blue drops only (Sohâg and Faîyûm)	Preliminary Final	•••	45 40	-70 48	260 $274$	94 89
CuSO4 drops 3 per cent (Gîza and Muharram Bey)	Preliminary Final		155 128	$\begin{bmatrix} 37 \\ 22 \end{bmatrix}$	187 201	197 193
Treatment by painting 10 per cent CuSO4 twice a week and drops CuSO4 3 per cent on alternate days by tamurgi (Husseinîya)	Preliminary Final		229	77	$\frac{166}{241}$	180 276
HgC12 for a few days preceded in certain cases by mechanical treatment. After this CuSO4 3 per cent drops (Muhammad Aly)	Preliminary Final	•••	214 70	58 4	177 233	182 313
Treatment by painting 10 per cent CuSO4 on Saturdays,	Preliminary	•••	267	73	174	72
Mondays and Wednesdays, and drops 3 per cent by B.T. on the other days (Râs el Ţîn)	Final	•••	148	6	278	140

#### Per Cent.

Regular treatment as carried out at O.Hs. (Tanta, Asyût	Preliminary	14.6	10.3	38.4	$36 \cdot 7$
Mansûra, Beni Suef, Damanhûr, Shibîn el Kôm and Benha)	Final	9.0	1.8	37.8	51.4
Treatment by painting on Saturdays and Mondays;	Preliminary	8.4	$2 \cdot 4$	45.4	$36 \cdot 7$
and by drops on Sundays, Tuesdays and Wednesdays (Zagazig and Minya)	Final	3.3	2.7	49.0	44.9
Blue drops only (Sohâg and Faîyûm)	Preliminary Final	$9 \cdot 6$ $8 \cdot 9$		$\begin{array}{c} 55 \cdot 4 \\ 60 \cdot 7 \end{array}$	$\begin{array}{c} 20 \cdot 0 \\ 19 \cdot 7 \end{array}$
C. CO. L. D. L. (CA. L. Mahamana Parr)		${26 \cdot 9}$	$-{6\cdot 4}$	$\frac{}{32\cdot 4}$	$34 \cdot 2$
CuSO4 drops 3 per cent (Gîza and Muharram Bey)	Final	$\begin{array}{ c c c c c c }\hline 23.5 \\ \hline \end{array}$		$36 \cdot 9$	$35 \cdot 5$
Treatment by painting 10 per cent CuSO4 twice a week and drops CuSO4 3 per cent on alternate days	Preliminary	35.1	11.8	$25 \cdot 4$	27 · 6
by tamurgi (Husseinîya)	Final	15.8	1.6	$38 \cdot 5$	$44 \cdot 1$
HgCl2 for a few days preceded in certain cases by mech-	Preliminary	33.9	$9 \cdot 2$	28.0	28.8
anical treatment. After this CuSO4 3 per cent drops (Muhammad Aly)	Final	11.3	•6	37.5	50.5
Treatment by painting 10 per cent CuSO4 on Saturdays,	Preliminary	45.5	12.4	$29 \cdot 7$	12.3
Mondays, and Wednesdays and drops 3 per cent by B.T. on the other days (Râs el Tîn)	Final	25.8	1.0	48.6	24.5

Table IIc.—Effect of Treatment on Serious Stages of Trachoma.

	Beginnin	G OF THE	YEAR.	Pupils with serious stages of Trachoma I and II.		
YEAR.	Pupils with any stage of Trachoma.	stages of	with serious of Trachoma and II.			
-	No.	No.	Per Cent.	No.	Per Cent.	
1907–1908	464	289	62.3	-		
1914–1915	1,553	342	$22 \cdot 0$	61	4.0	
1916–1917	1,528	327	21.4	48	3.0	
1917–1918	1,699	282	16.6	71	$4 \cdot 2$	
1919–1920	2,454	410	16.7	201	$8\cdot 2$	
1920–1921	3,363	643	19.1	290	8.6	
1921–1922	5,036	1,369	27 · 2	580	11.5	
1922–1923	6,140	1,982	32.3	892	14.5	

Table IId.—Stages of Trachoma at Beginning and End of School Year.

		•			
	BEGINNING	F OF THE YEAR.	END OF THE YEAR.		
STAGES OF TRACHOMA.	No.	Per Cent.	No.	Per Cent	
m 1	1,341	21.8	738	$12 \cdot 2$	
Trachoma I					
" II	641	10.4	154	$2 \cdot 5$	
, , III	2,249	36.6	2,508	41.7	
" IV	1,909	31.1	2,615	43.5	

IV III. Тваснома.  $\mathfrak{D}$ abla 1 $\mathcal{D}$ ಬ 4TH YEAR. II.  $\infty$  $\mathcal{D}$ vitis. Conjuncti-ೞ  $\mathcal{D}$ Healthy. 25. H. 3RD YEAR. ij  $\infty$ vitis. -itonujnoO  $\mathfrak{D}$  $\overline{2}$ Healthy.  $\infty$ III. Тваснома  $\infty$  $\infty$ YEAR. Η ND .sitiv Conjuncti-ಬ Неайћу. ರ  $\Omega$ Ткаснома  $\infty$ YEAR. II.  $\infty$ lsT  $\infty$ .sitiv Conjuncti Неаму. TOTAL SCHOOLS. Muhammad Aly Shibîn el Kôm Muharram Bey Damanhûr ... Benha ... ... Husseinîya ... Râs el Tîn Sohâg ... Beni Suef Minya ... Faîyûm... Mansûra Zagazig Asyût Tanta

Table IIIa.—Trachoma and its Relation to School Years (Beginning of the Year.)

Table IIIb.—Comparison of Serious Stages of Trachoma (Beginning of the Year).

Table IV.—Vision of all Pupils without Spectacles.

Per cent.	39.6	23.4	36.9	Control of the contro
диляЭ Тотот.	2,702	1,593	2,521	6,816
.1ATOT	1,182 1,520	1,078	2,521	6,816
Râs el Tîn.	306	98	155	785
Mammaduld Aly.	99	18	172	655
Husseinîya,	61	26 149	278	728
Muharram Bey.	107	0.00	122	382
Вепра.	63	64	189	388
Gîza.	31	64	164	304
mûyîsI	14 23	37	152	226
Minya	71 68	70	42	324
Sohâg.	23 49	₹. 20 20 20 20 20 20 20 20 20 20 20 20 20	119	248
Shibîn el Kôm,	2 6 8 3	& 4. cJ	83	170
.ıûdnsmaQ	80	4	98	276
.gizsgsZ	89	88	65	380
Beni Suef.	25	83	195	373
Mansûra.	59	88	233	483
Asyût.	108	111	179	515
.etneT	59	133	275	579
VISION.	Good Vision:—  (a) Normal vision in each eye 6/6 and 6/6  (b) Vision 6/6 and 6/9 or 6/9 and 6/9	Fair Vision:—  (a) Vision 6/6 and 6/12 or 6/9 and 6/12 or 6/12 and 6/12  (b) Vision 6/6 and 6/18	Bad Vision:— Fails to attain any of the above standards	Total

96 382 119 237 26 55 231 TOTAL, 20 20 17 17 37 Rås el Tin. ~ Aly. ಣ 17 ಣ 21 Muhammad 9 11 4 36 29 Husseinîya, 21 Bey. 15  $\infty$  $\infty$ 15 23 Muharram 15  $\mathcal{D}$  $\mathcal{T}\mathcal{O}$ 14  $\mathcal{O}_{\mathbf{J}}$ Benha. 21 12 19 ಣ 14 4 Gîza. 18 6 6 10 O Falyûm. 11 17 Minya. 17 17 9 0  $\infty$ 0  $\mathcal{D}$ Sobâg. Kôm. 12 9 18 9 12 Shibîn el Damanhûr. 13 11 ಣ 24 21 15 10  $\mathcal{O}_{J}$ ಣ  $\mathfrak{S}$ 12 Zagazig. 10  $\mathcal{O}_{\mathbf{J}}$  $\mathcal{L}$ 17 9 11 Beni Suef. 16 6 Mansûra. 33 49 16 24 12 **C**1 ಣ ಣ 12 ablaAsyût. 17 42 12 29 13 29 Tanta. generai obtained spectacles obtained spectacles but : Number of pupils now attending ordered spectacles not yet obtained ... ... ... : Net number not wearing spectacles which Number of pupils wearing spectacles on date of Number of pupils now attending in previous years ... ... Number of pupils now attending in this year ... ... Spectacles on order or under repair previously ordered ... inspection ... ...

TABLE V.—SPECTACLES ORDERED.

TABLE VI.—VISION OF PUPILS ORDERED SPECTACLES.

	<del></del>				
		p.	TOTAL.	GRAND TOTAL.	Per Cent.
					•

### (a) Before ordering.

Good Vision:—			
(a) Normal vision in each eye 6/6 and 6/6	4		
(b) Vision 6/6 and 6/9 or 6/9 and 6/9	4	8	$2 \cdot 1$
Fair Vision:—			
(a) Vision 6/6 and 6/12, 6/9 and 6/12, 6/12 and 6/12	11		
(b) Vision 6/6 and 6/18	3	14	$3 \cdot 6$
Bad Vision:—			
Fails to attain any of the above standards	360	360	$94 \cdot 2$
$ exttt{Total}$	382	382	

#### (b) After ordering.

Good Vision:			
(a) Attains 6/6 and 6/6 with aid of spectacles not greater in strength than +6 D	29		
(b) Attains 6/6 and 6/9 or 6/9 and 6/9 with aid of spectacles not greater in strength than +—6 D	59	88	23.0
Fair Vision:—			
(a) Attains 6/6 and 6/12 or 6/9 and 6/12 or 6/12 and 6/12 with aid of spectacles not greater in strength than +-6D	84		
(b) Attains 6/6 and 6/18 with aid of spectacles not greater in strength than +—6 D	16	100	$26 \cdot 2$
Bad Vision:—			
(a) Fails to attain any of the above standards with aid of spectacles not greater in strength than +—6 D	158		
(b) Attains any of the above standards with aid of spectacles greater in strength than +—6 D	36	194	50.8
Total	382	382	

Table VII.—Condition of Cornea before Treatment.

S	School.			Both Corneæ clear.	One cornea clear the other showing opacity.	Opacity of both corneæ.
Гanta	• • • • • •	• • • • •	•••	512	41	25
A A :	• • • • • • • • • • • • • • • • • • • •			454	33	28
Mansûra	• • • • • •	•••	•••	412	45	26
Beni Suef	•••		•••	328	32	13
Zagazig	•••	•••	•••	328	34	18
Damanhûr				244	31	1
Shibîn el Kôm		•••		132	17	21
Sohâg		•••		204	34	10
Minya	• • • • • •	•••	•••	292	28	4
Faîyûm		•••	•••	153	31	42
Gîza	•••	•••	•••	247	29	28
Benha	•••	•••	•••	330	36	22
Muharram Bey	•••	•••	•••	376	6	ngali terrenggan
Husseinîya			,	679	43	6
Mohammad Aly		•••	•••	586	64	5
Râs el Tîn		•••	•••	737	42	6
				;		
		Тота	ն	6,014	546	255
Per cent	•••	•••		88.2	8.0	3.7
				20		



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